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# **Introduction**

## **Introducing the WinClient**

WinClient Windows Based Terminals are designed to access any Windows application such as Microsoft Word, Excel or PowerPoint residing on Windows Terminal Server. WinClient is very easy on installation; there is no need to install any software onto network. Simply plug a WinClient into the network, configure WinClient, and then connect to Windows Terminal Server to run Windows applications.

WinClient supports RDP (Remote Desktop Protocol) and Citrix ICA (Independent Computing Architecture). WinClient connects to one or more Windows NT-based Servers via RDP & the Servers must be running Citrix MetaFrame or WinFrame to capable with ICA.

## Features of WinClient TC320 Series

Model	TC-320N	TC-320NE
<b>Processor</b>		
CPU	NS Geode 300MHz with 16KB unified Cache	NS Geode 300MHz with 16KB unified Cache
<b>Memory</b>		
RAM	One SDRAM 168pin DIMM 64/128MB or above	One SDRAM 168pin DIMM 64/128MB or above
ROM	One Disk on chip flash ROM 8/16MB or above	One Disk on chip flash ROM 8/16MB or above
<b>Standard Interface</b>		
VGA	Up to 1024 * 768, 16bit high color, VESA monitor support with DDC	Up to 1024 * 768, 16bit high color, VESA monitor support with DDC
LAN	10/100BaseT fast Ethernet, twisted pair RJ45	10/100BaseT fast Ethernet, twisted pair RJ45
Keyboard and Mouse	PS2 Type	PS2 Type
Serial	RS232, 9Pin DSUB COM1, COM2	RS232, 9Pin DSUB COM1, COM2
Parallel	25Pin DSUB	25Pin DSUB
USB Port	2 USB Ports	2 USB Ports
Audio Line Out	1/8inches mini, full 16bit stereo, 44KHz sample rate	1/8inches mini, full 16bit stereo, 44KHz sample rate
<b>Power System</b>		
Connector	2 Pin Jack 5V DC.	2 Pin Jack 5V DC.
AC/DC Adapter	Input AC 100/240 Volt, 50~60Hz. Output 5VDC, 4A.	Input AC 100/240 Volt, 50~60Hz. Output 5VDC, 4A.
<b>Physical Mechanical</b>		
Dimension	232 mm (H) x 42 mm (W) x 240 mm (D)	232 mm (H) x 42 mm (W) x 240 mm (D)
<b>Client Side System Software</b>		
OS System	Microsoft Windows CE	Microsoft Windows CE
Terminal Emulations		IBM: AIXterm, 3270, 5250
		Digital: VT42, VT100, VT220, VT320, VT420, VT520, VT525
		ANSI: ANSI-BBS, SCO-ANSI, AT386
		Additional: Wyse (50/60), Data General D-412, Televido (TVI 925/950)
Local Browser	Microsoft – Internet Explorer (option)	Microsoft – Internet Explorer (option)
Connectivity	Microsoft Remote Desktop Protocol RDP	Microsoft Remote Desktop Protocol RDP
	Citrix ICA Protocol ICA	Citrix ICA Protocol ICA
SNMP	Local SNMP support	Local SNMP support
<b>Server Side System Software</b>		
Management Tool	WinClient Remote Manager	WinClient Remote Manager
	Wake on LAN	Wake on LAN

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## Features of WinClient TC600 Series

Model	TC-600 Thin Client
Processor	
CPU	VIA Eden 533MHz or above
Memory	
RAM	One SDRAM 144pin DIMM 64MB up to 512MB
DOC	One Disk on chip flash ROM 8MB up to 144MB
Standard Interface	
VGA	up to 1024×768×32bit high color, VESA monitor support with DDC
LAN	One 10/100BaseT fast Ethernet port, twisted pair RJ45
PCMCIA	One IEEE802.11b Wireless LAN (Option)
Smart Card	One Smart Card (Option)
PS2	Support PS2 KB, Mouse
Serial	Two RS232, 9Pin DSUB COM1, COM2
Parallel	25Pin DSUB
USB Port	2 USB Ports
Audio Line Out	1/8inches mini, full 18bit stereo, 44KHz sample rate
Power System	
Connector	2 Pin Jack 5V DC.
AC/DC Adapter	Input AC 100/240 Volt, 50~60Hz. Output 5VCD, 4A
Physical Mechanical	
Dimension	220 mm (H) x 45 mm (W) x 155 mm (D)
Client Side System Software	
OS System	Microsoft Windows CE
Optional Terminal	IBM: AIXterm, 3270, 5250
Emulations (Option)	Digital: VT42, VT100, VT220, VT320, VT420, VT520, VT525 ANSI: ANSI-BBS, SCO-ANSI, AT386 Additional: Wyse (50/60), Data General D-412, Televido (TVI 925/950)
Local Browser	Optional Microsoft Internet Explorer
Connectivity	Microsoft Remote Desktop Protocol RDP Citrix ICA Protocol ICA
Server Side System Software	
Management Tool	WinClient Remote Manager

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## Features of WinClient TC805 Series

<b>Model</b>	<b>TC-805 Thin Client</b>
<b>LCD</b>	
Panel Size / Type	15" TFT Color LCD Panel
OSD Control	Auto-adjust Monitor-control: H-position, V-position, Phase, Clock, Reset OSD-control: OSD-H-position, OSD-V-position Misc-control: Language, Information (firmware version) Graphic-Control: Contrast, Brightness, Sharpness, Color, R, G & B Adj.
<b>Processor</b>	
CPU	NS Geode 300MHz
<b>Memory</b>	
RAM	One SDRAM 144pin SODIMM 64MB up to 512MB
DOC	One Disk on chip flash ROM 8MB up to 144MB
<b>Standard Interface</b>	
VGA	up to 1024 × 768 16bit high colors, VESA monitor support with DDC
LAN	One 10/100BaseT fast Ethernet port, twisted pair RJ45
PCMCIA	One IEEE802.11b Wireless LAN (Option)
Smart Card	One Smart Card (Option)
PS2	Support PS2 KB, Mouse
Serial	One RS232, 9Pin DSUB COM1
Parallel	25Pin DSUB
USB Port	2 USB Ports
Audio Line Out	2 × 1 Watts speakers with Amplifier
<b>Power System</b>	
Connector	2pin Jack 12V DC
AC/DC Adapter	Input AC 100/200 Volt, 50~60Hz, Output 12VDC 3.75A
<b>Physical Mechanical</b>	
Dimension	331mm(H)×362mm(W)×175mm(D)
<b>Client Side System Software</b>	
OS System	Microsoft Windows CE
Optional	IBM: AIXterm, 3270, 5250
Terminal	Digital: VT42, VT100, VT220, VT320, VT420, VT520, VT525
Emulations (Option)	ANSI: ANSI-BBS, SCO-ANSI, AT386 Additional: Wyse (50/60), Data General D-412, Televido (TVI 925/950)
Local Browser	Optional
Connectivity	Microsoft Remote Desktop Protocol RDP Citrix ICA Protocol ICA
<b>Server Side System Software</b>	
Management Tool	WinClient Remote Manager

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## Features of WinClient TC810 Series

<b>Model</b>	<b>TC-805 Thin Client</b>
<b>LCD</b>	
Panel Size / Type	15" TFT Color LCD Panel
OSD Control	Auto-adjust Monitor-control: H-position, V-position, Phase, Clock, Reset OSD-control: OSD-H-position, OSD-V-position Misc-control: Language, Information (firmware version) Graphic-Control: Contrast, Brightness, Sharpness, Color, R, G & B Adj.
<b>Processor</b>	
CPU	VIA Eden
<b>Memory</b>	
RAM	One SDRAM 144pin SODIMM 64MB up to 512MB
DOC	One Disk on chip flash ROM 8MB up to 144MB
<b>Standard Interface</b>	
VGA	up to 1024 × 768 16bit high colors, VESA monitor support with DDC
LAN	One 10/100BaseT fast Ethernet port, twisted pair RJ45
PCMCIA	One IEEE802.11b Wireless LAN (Option)
Smart Card	One Smart Card (Option)
PS2	Support PS2 KB, Mouse
Serial	One RS232, 9Pin DSUB COM1
Parallel	25Pin DSUB
USB Port	2 USB Ports
Audio Line Out	2 × 1 Watts speakers with Amplifier
<b>Power System</b>	
Connector	2pin Jack 12V DC
AC/DC Adapter	Input AC 100/200 Volt, 50~60Hz, Output 12VDC 3.75A
<b>Physical Mechanical</b>	
Dimension	331mm(H)×362mm(W)×175mm(D)
<b>Client Side System Software</b>	
OS System	Microsoft Windows CE
Optional	IBM: AIXterm, 3270, 5250
Terminal	Digital: VT42, VT100, VT220, VT320, VT420, VT520, VT525
Emulations	ANSI: ANSI-BBS, SCO-ANSI, AT386
(Option)	Additional: Wyse (50/60), Data General D-412, Televideo (TVI 925/950)
Local Browser	Optional
Connectivity	Microsoft Remote Desktop Protocol RDP Citrix ICA Protocol ICA
<b>Server Side System Software</b>	
Management Tool	WinClient Remote Manager

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# Hardware Setup

## Unpacking & Checking the Equipment

Before unpacking the WinClient, prepare a clean, stable surface to put the contents of your WinClient shipping container on. You should find following items in the WinClient package:

### **The WinClient TC320**

One AC Adapter

A Power Cord

A Stand in three parts for your WinClient

User's Manual

\*A PS/2 Keyboard with cable

\*A PS/2 Mouse with cable

### **The WinClient TC600**

One AC Adapter

A Power Cord

A Stand for your WinClient

User's Manual

\*A PS/2 Keyboard with cable

\*A PS/2 Mouse with cable

### **The WinClient TC805/TC810**

One AC Adapter

A Power Cord

User's Manual

PS/2 Mouse, Keyboard spilt cable

\*A PS/2 Keyboard with cable

\*A PS/2 Mouse with cable

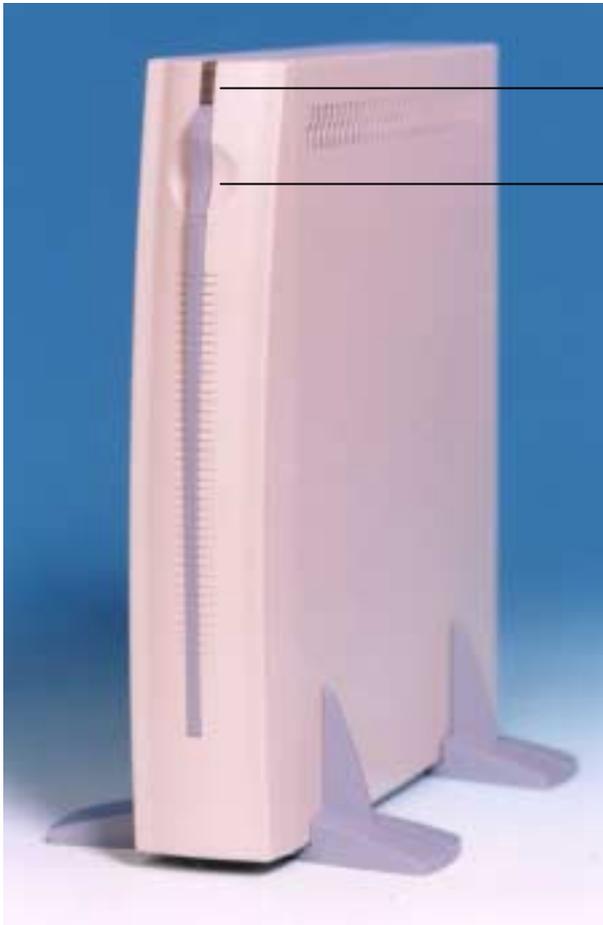
### **Notice:**

\*PS/2 Keyboard and Mouse are optional items.

## Identify Parts of the WinClient TC320

The illustrations that follow identify the various features of the WinClient TC320.

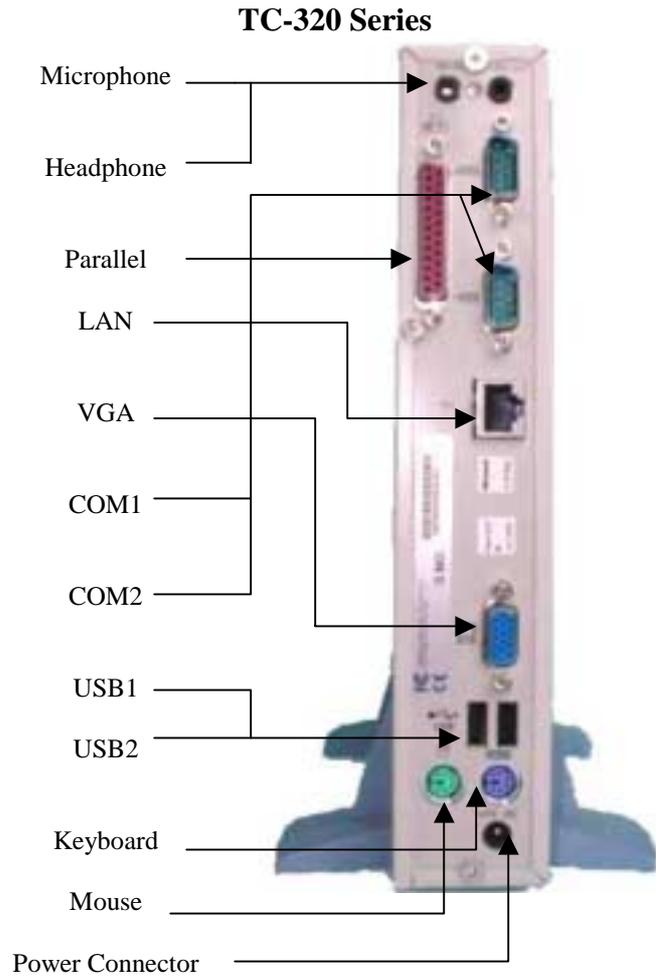
### Front View



Network Activity  
Indicator  
Power Indicator  
Power On/Off  
Switch

Power On/Off Switch (The Power On/Off Switch turns your WinClient on or off. Push it in for on, out for off)  
Network Activity Indicator (Yellow lights when your WinClient is sending data through a network)  
Power Indicator (Green lights when your WinClient is connected to a power source and is turned on)

## Rear View



Microphone, audio input.

Headphone, audio output for Headphones, Speaker.

Network , RJ-45 jack for a 10/100BaseT twisted pair Ethernet connector.

Video, standard DB-15 VGA type connector for Monitor.

Parallel, standard DB-25 parallel port for printer.

COM1, DB-9 RS232 port, for external modem, touch screen .

COM2, DB-9 RS232 port.

USB1, Universal Serial Bus connector.

USB2, Universal Serial Bus connector.

Mouse, PS/2 type mouse connector.

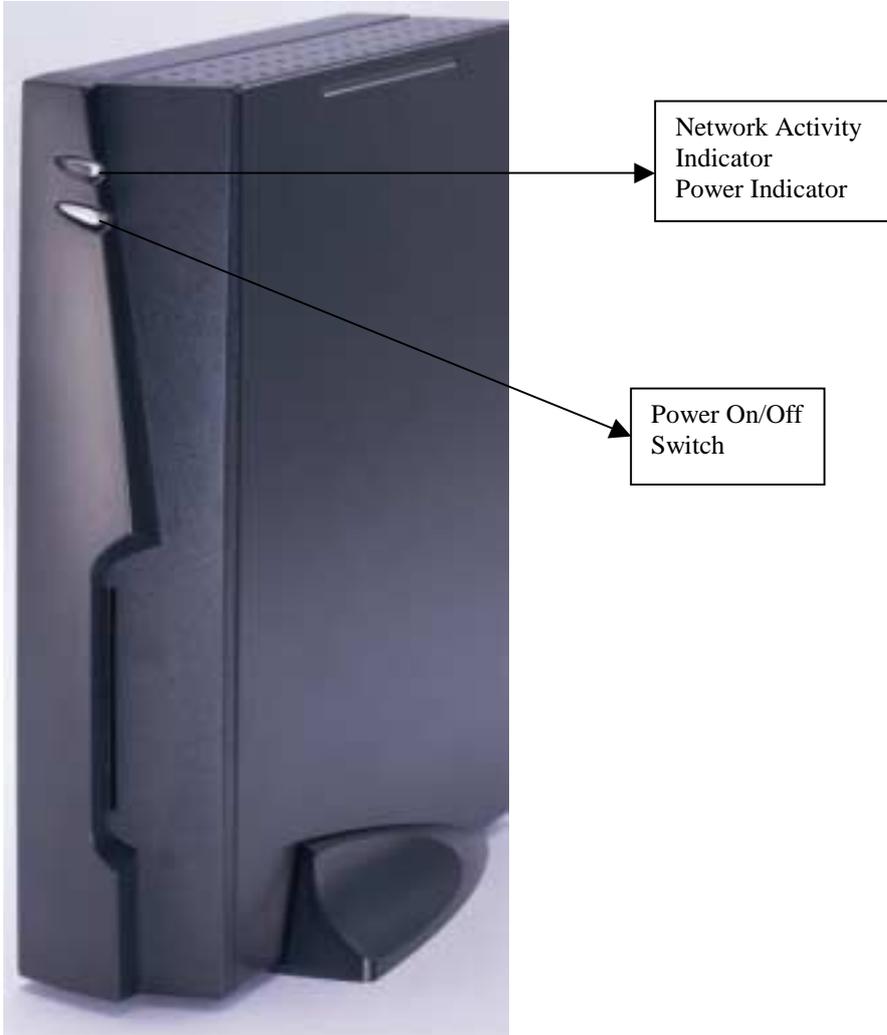
Keyboard, PS/2 type keyboard connector.

Power, Power Connector

## Identify Parts of the WinClient TC600

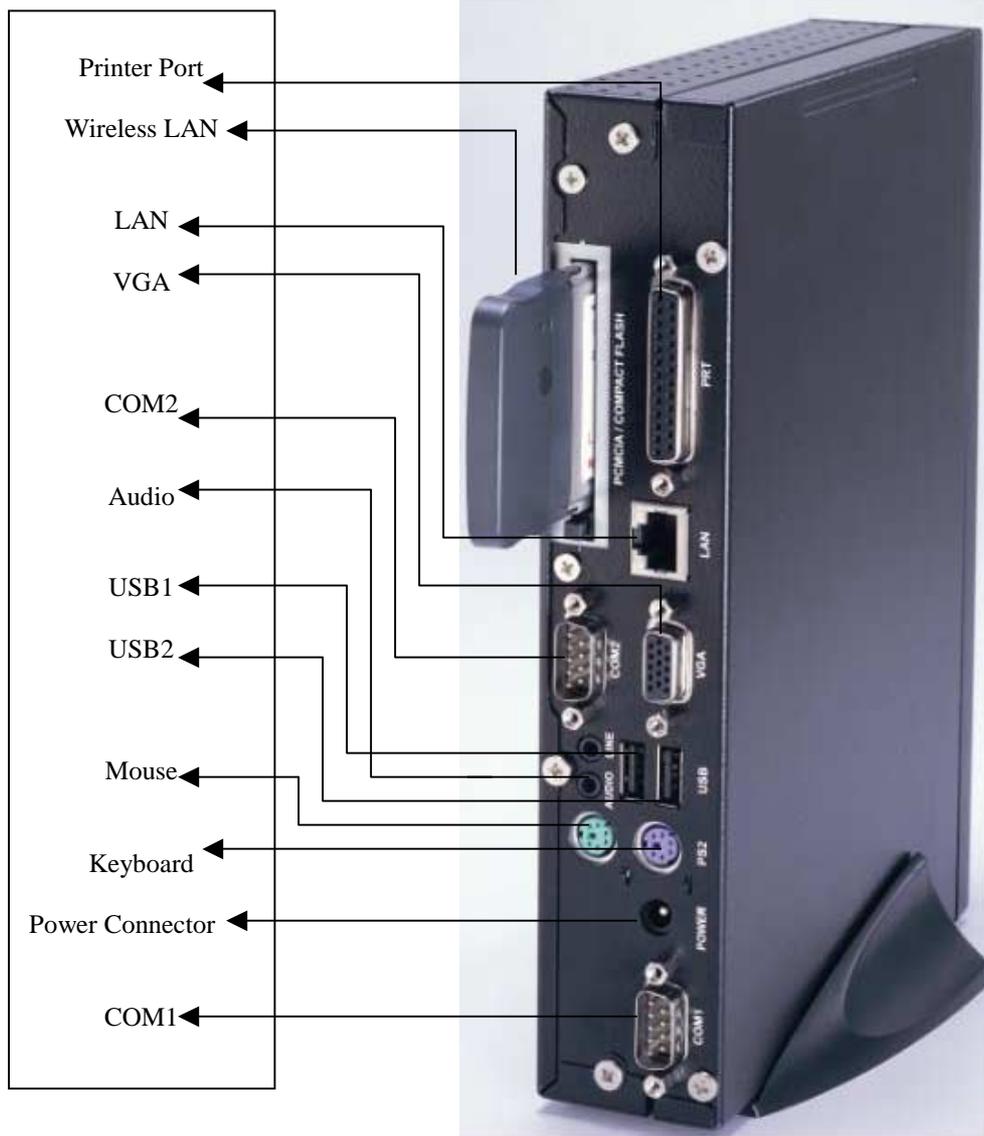
The illustrations that follow identify the various features of the WinClient TC600.

### Front View



Power On/Off Switch (The Power On/Off Switch turns your WinClient on or off. Push it in for on, out for off)  
Network Activity Indicator (Yellow lights when your WinClient is sending data through a network)  
Power Indicator (Green lights when your WinClient is connected to a power source and is turned on)

## Rear View



Network , RJ-45 jack for a 10/100BaseT twisted pair Ethernet connector.

Audio output

Video, standard DB-15 VGA type connector for Monitor.

Parallel, standard DB-25 parallel port for printer.

COM1, DB-9 RS232 port, for external modem, touch screen .

COM2, DB-9 RS232 port.

USB1, Universal Serial Bus connector.

USB2, Universal Serial Bus connector.

Mouse, PS/2 type mouse connector.

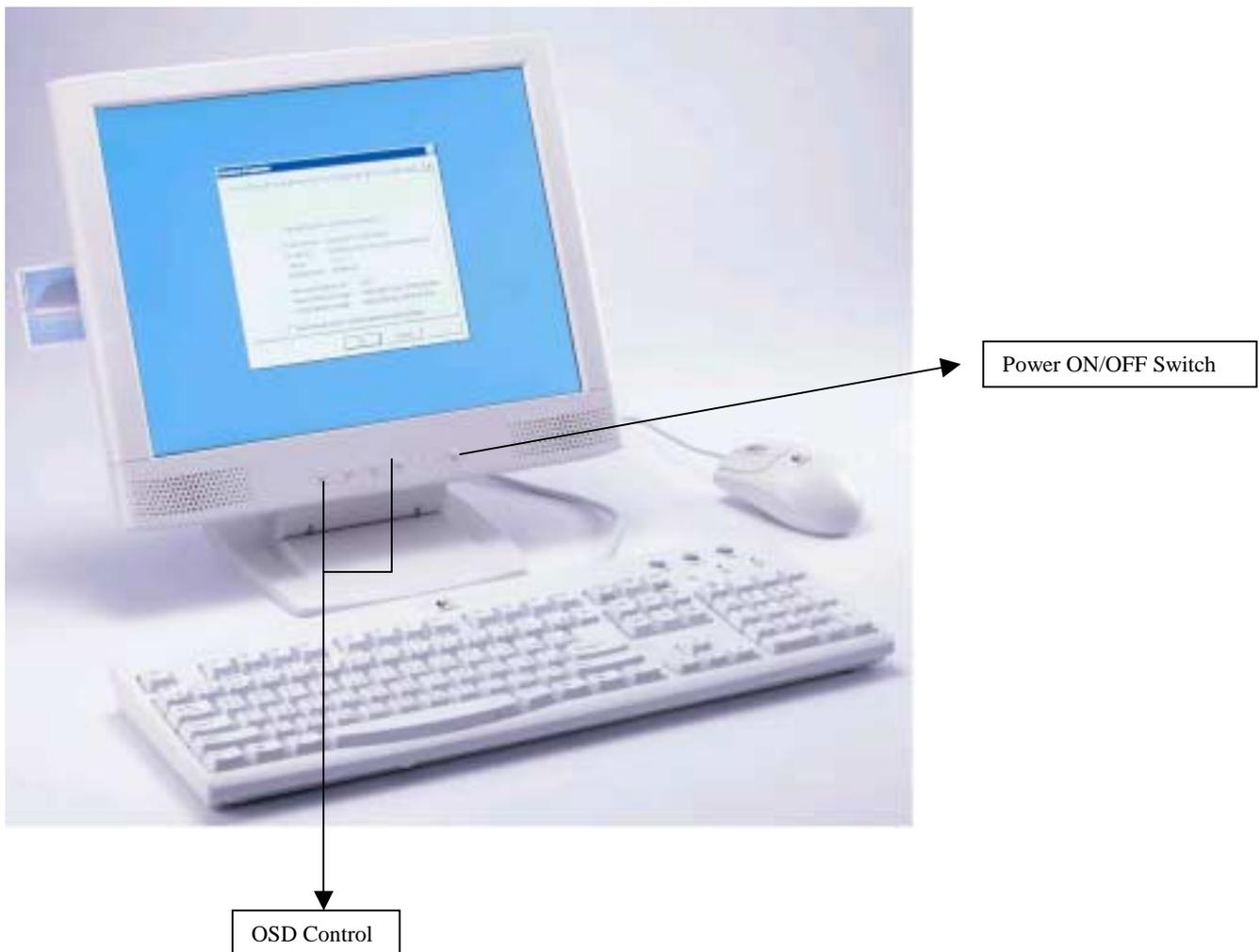
Keyboard, PS/2 type keyboard connector.

Power, Power Connector

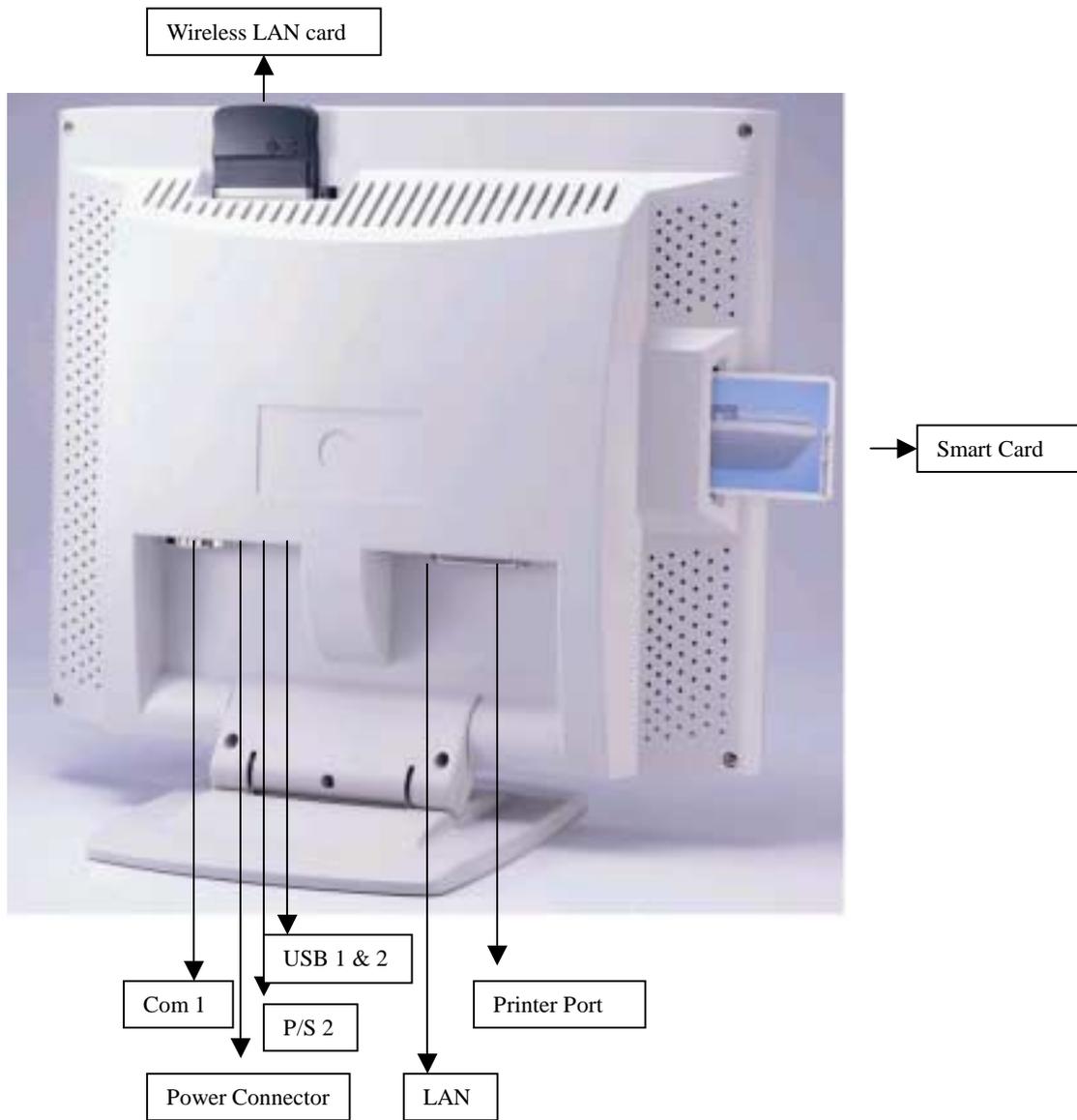
## Identify Parts of the WinClient TC805/TC810

### Front View

- ◆ Power On/Off Switch (The Power On/Off Switch turns your WinClient on or off. Push it in for on, out for off)
- ◆ OSD Functions include :
  1. Auto-adjust.
  2. Monitor-control: H-position,V-position,Phase, Clock, Reset.
  3. OSD-control: OSD-H-position, OSD-V-position.
  4. Misc-control: Language, Information (firmware version)
  5. Graphic-Control: Contrast, Brightness,Sharpness, Color, R, G & B Adj.



## Rear View



## **Connecting the Terminal**

Before connecting the cables, arrange your WinClient and monitor in your work area. Be sure not to block the vents around WinClient and Monitor.

Plug the AC power core into the power adapter, then into AC power source.

Connect the adapter cable to power connector

Connect the keyboard cable to keyboard connector.

Connect the mouse cable to mouse connector.

Connect the monitor video cable to video connector.

Connect the monitor power cable to the AC power source.

Connect the 10/100Base-T twisted pair network cable to network connector.

If you have a local printer, connect its cable to parallel port.

If you have microphone, plug its cable into microphone port.

If you have headphone or speaker, plug its cable into headphone port.

## **Using the Power On/Off Switch**

After the cables are connected, you are ready to turn it on by pressing power On/Off switch.

To turn on your WinClient, push the power On/Off switch in. The power indicator lights.

To turn off your WinClient, push the power On/Off switch again so that it returns to its extended position. The power indicator lights off.

Please note that the unit needs about 4-5 seconds of leading time when turning on or off. So, once turn off the machine, to switch it on again, wait for 4 to 5 seconds, then switch on.

# START UP

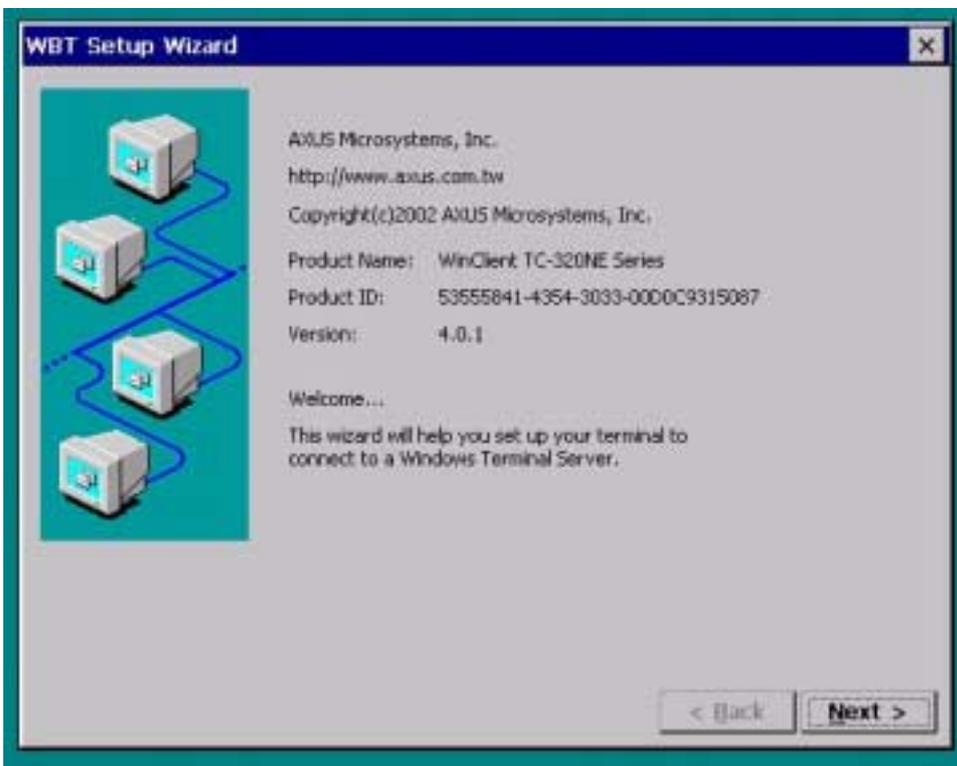
## Quickly Configure Your WinClient

After completing the hardware setup, the WinClient must be configured before it is ready to use. This chapter guides you through the most easy and quick way to configure your WinClient. Quick configuring your WinClient can be accomplished through the following steps:

Power on your WinClient.

The Welcome setup wizard dialog box is first dialog box when you turn on your terminal for the first time. Click on the [NEXT] button in the dialog box to display the next setup wizard dialog box.

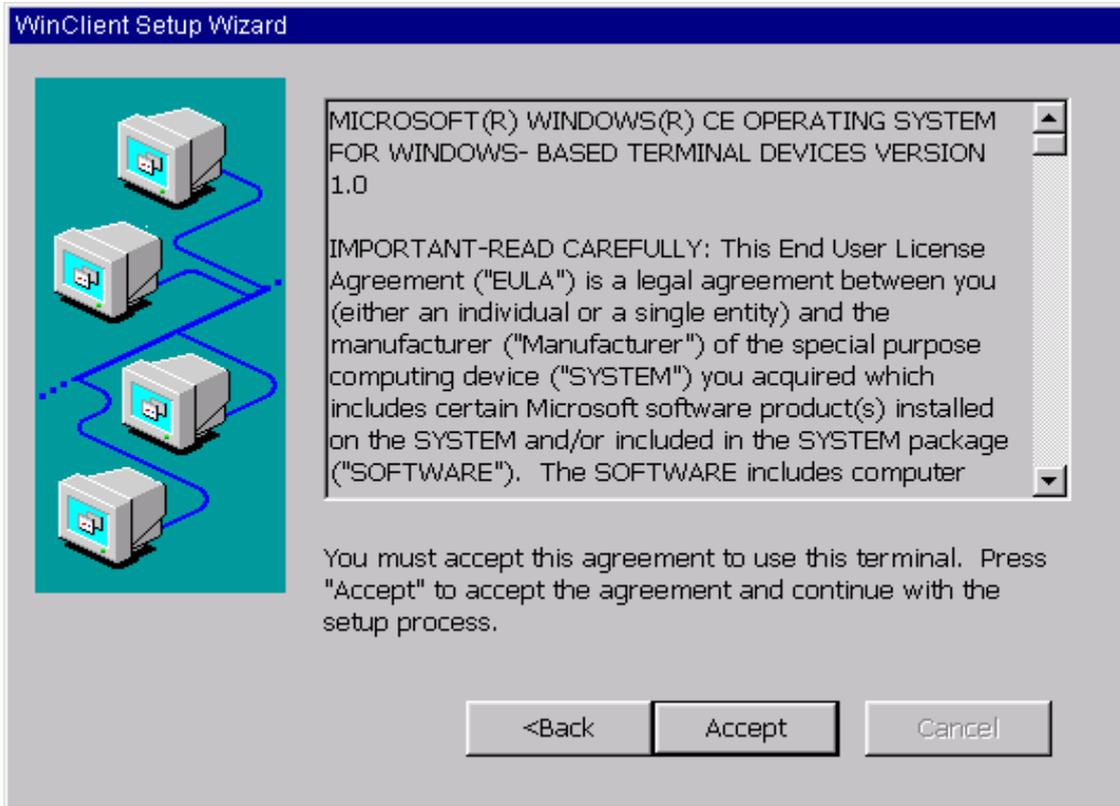
### Welcome



Setup Wizard Step 1

The End User License Agreement setup wizard dialog box is the next dialog box that will appear. Read the license agreement carefully. If you accept this agreement to use this terminal, click on the [ACCEPT] button to accept the agreement and continue with the next setup process.

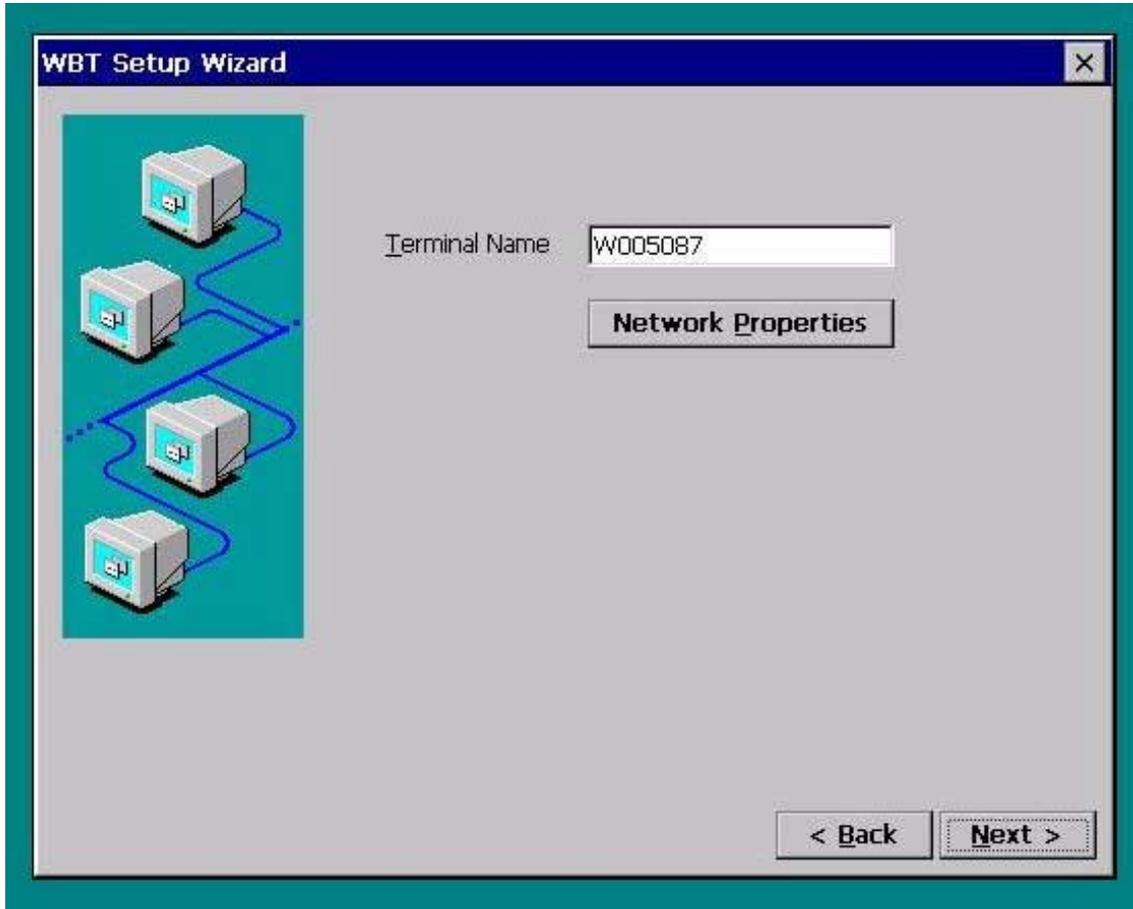
### End User License Agreement



### Setup Wizard Step 2

The following dialog box allows you to insert your terminal name of your clients. Also, it allows you to configure your Network settings ( For details of setting up the Networks, please refer to Network and Dial-up Properties) .

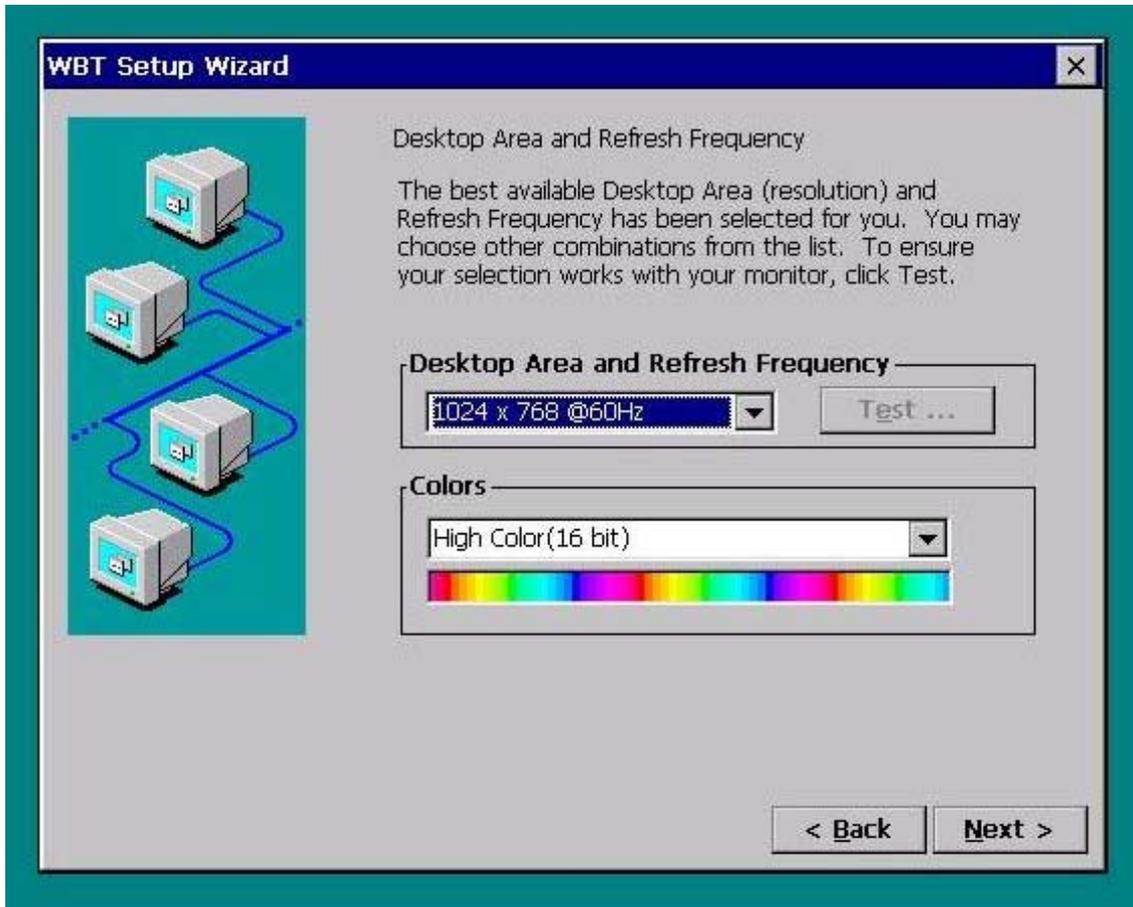
### Terminal Name



Setup Wizard Step 3

Desktop Area and Refresh Frequency setup wizard dialog box is the next dialog box. To use the default resolution click [NEXT] button. You may choose other resolution from the Desktop Area and Refresh frequency scroll list. To ensure your selection works with your monitor, click [TEST] button. If you see the test image properly, click [NEXT] button to go to the next dialog box, otherwise select other resolution and test again.

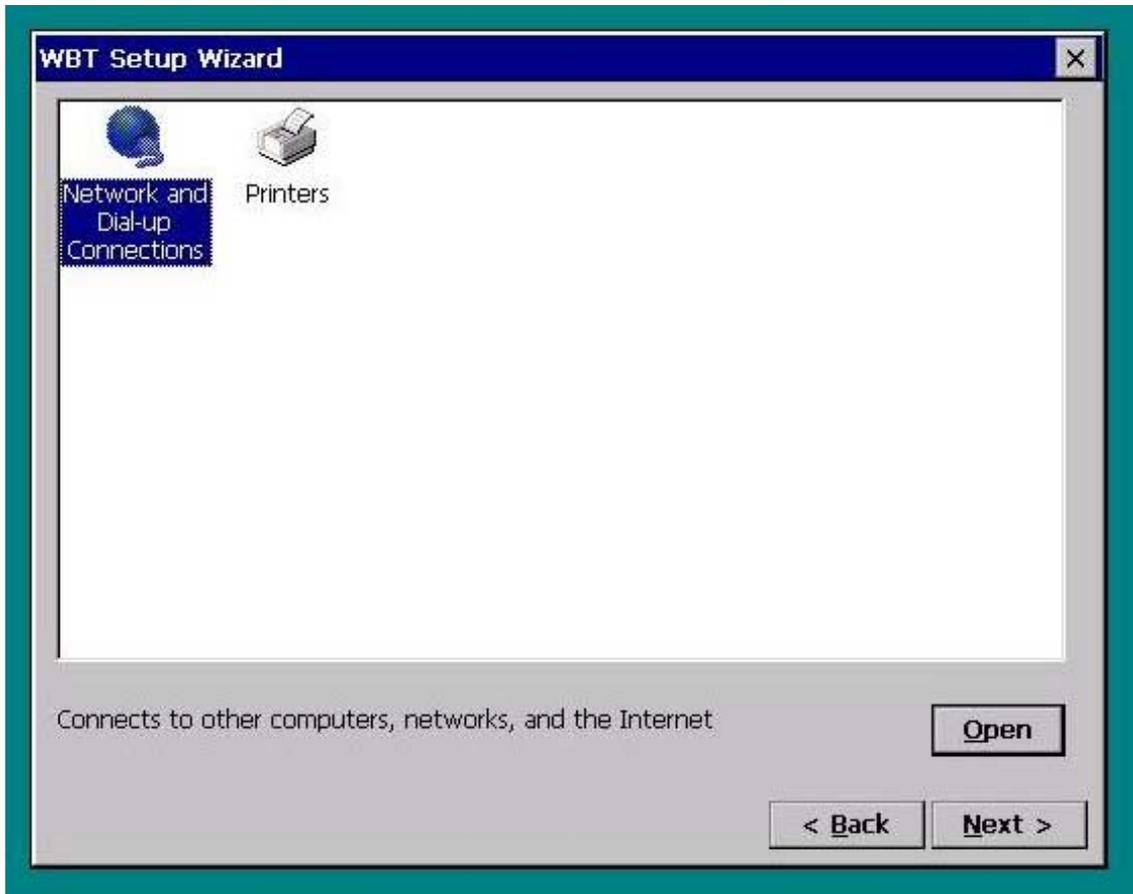
### Desktop Area and Refresh Frequency



Setup Wizard Step 4

By clicking on the Network and the printers Icon allows you to configure the connections and the printers type for your systems.

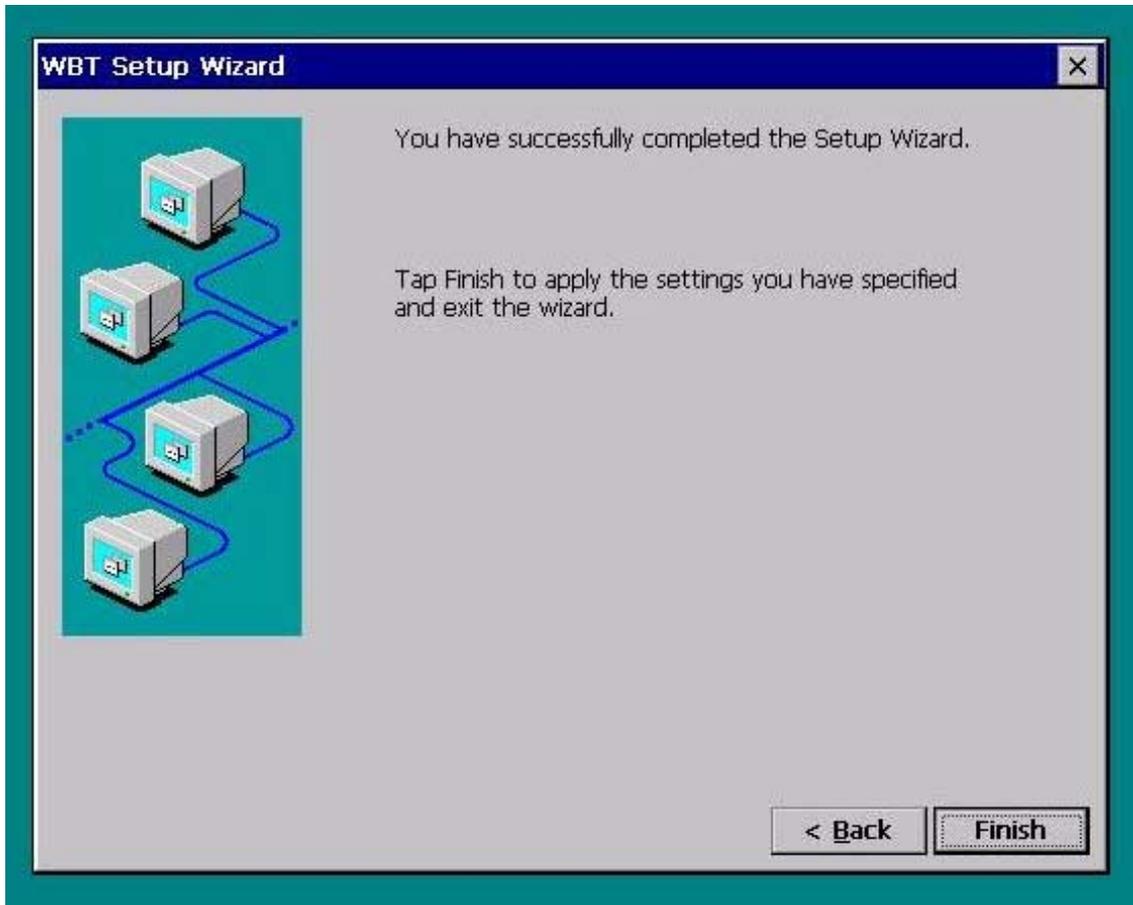
### Network and Dial-up Connections & Printers



Setup Wizard Step 5

You have successfully completed the Setup Wizard. Click on the **[FINSH]** button to apply the settings you have specified and exit Setup wizard. Any future change can be made using the Terminal Properties dialog box. See the chapter Changing the Terminal Properties.

### Finish



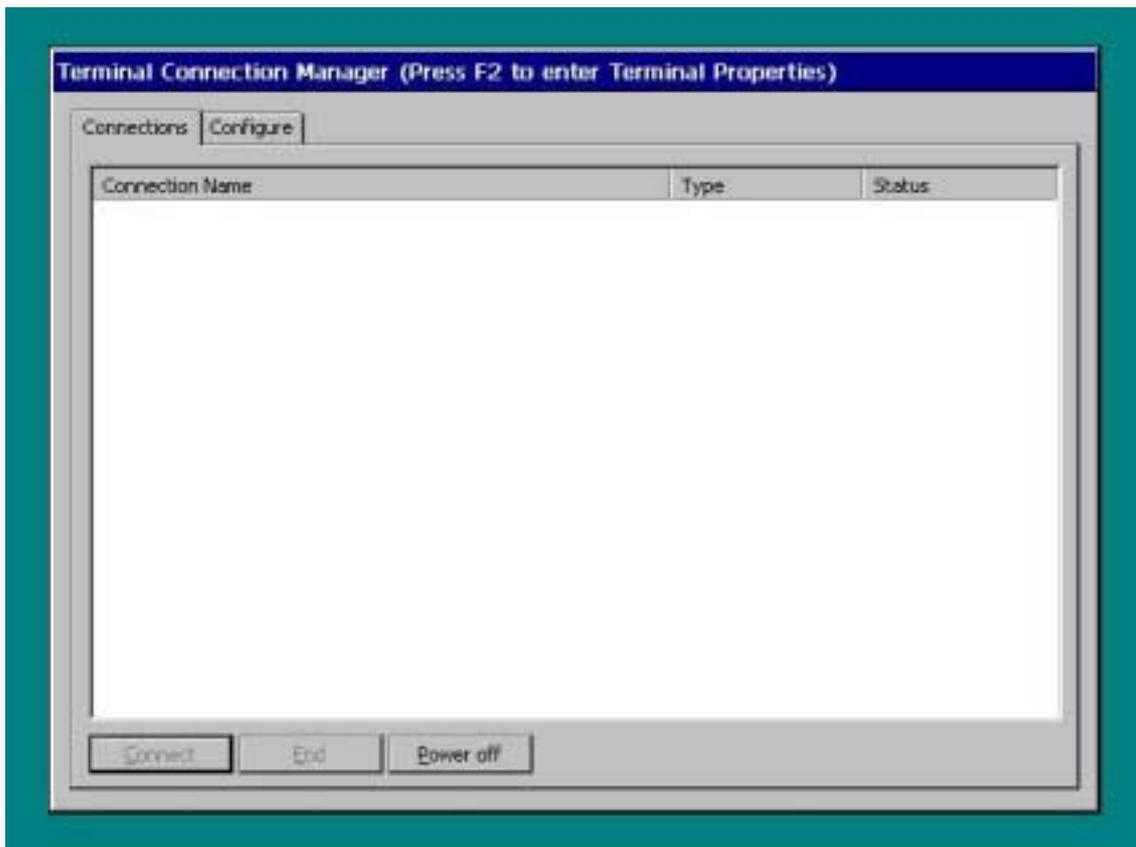
**Setup Wizard Step 6**

## Quickly Connect your WinClient with Server

Now, you are ready to connect your WinClient with Server. The Terminal Connection Manager dialog box will be displayed after the Setup Wizard closed. Terminal Connection Manager will help you to manage your Terminal's network connections. See the Chapter Terminal Connections Management. This section guides you through the most easy and quick way to connect your WinClient with Server. Quick-Connecting your WinClient on the network can be accomplished through following steps:

### Add new connection.

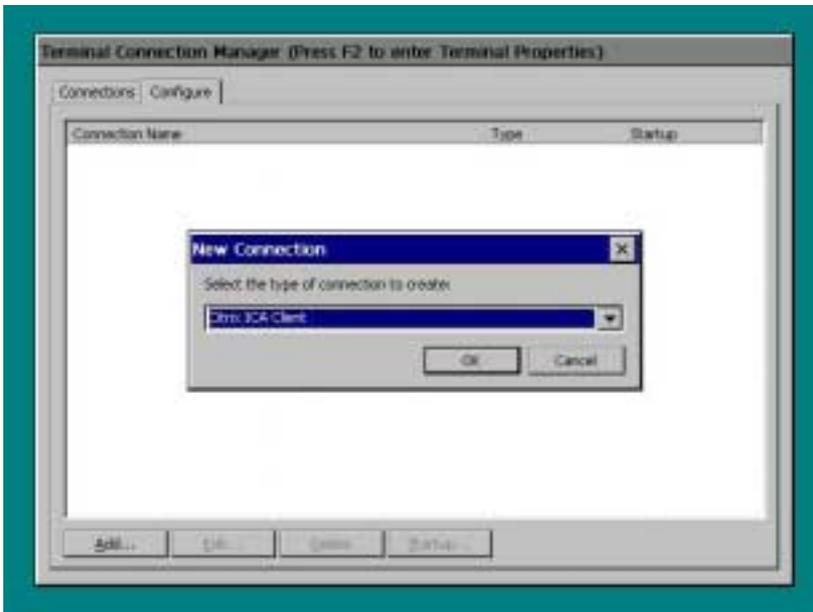
Click [**Configure**] button



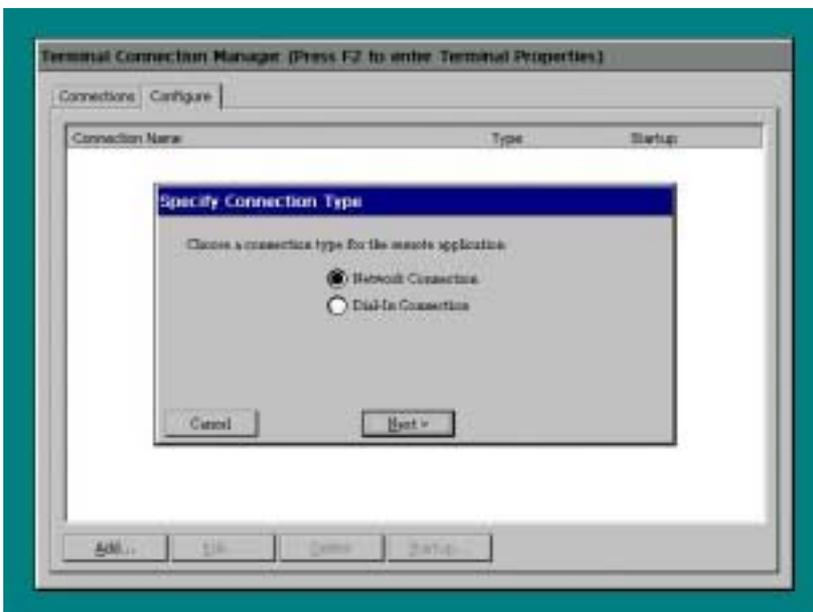
**Terminal Connection Manager Step 1-1**

Then Click **[Add]** button, a new Connection dialog box displayed. Choose the type of connection from the connection scroll list. And Click **[OK]**.

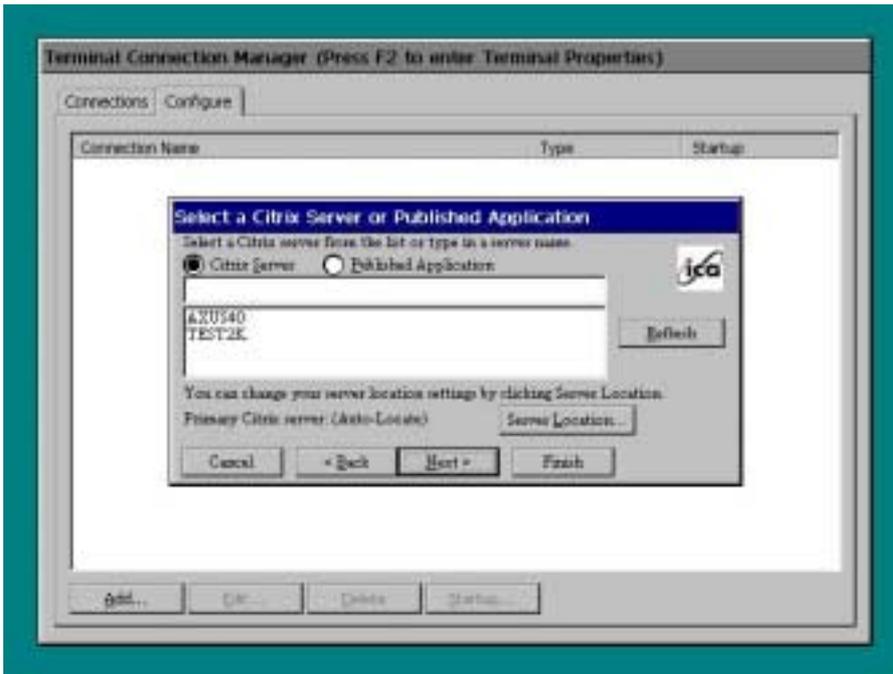
## ICA Connection



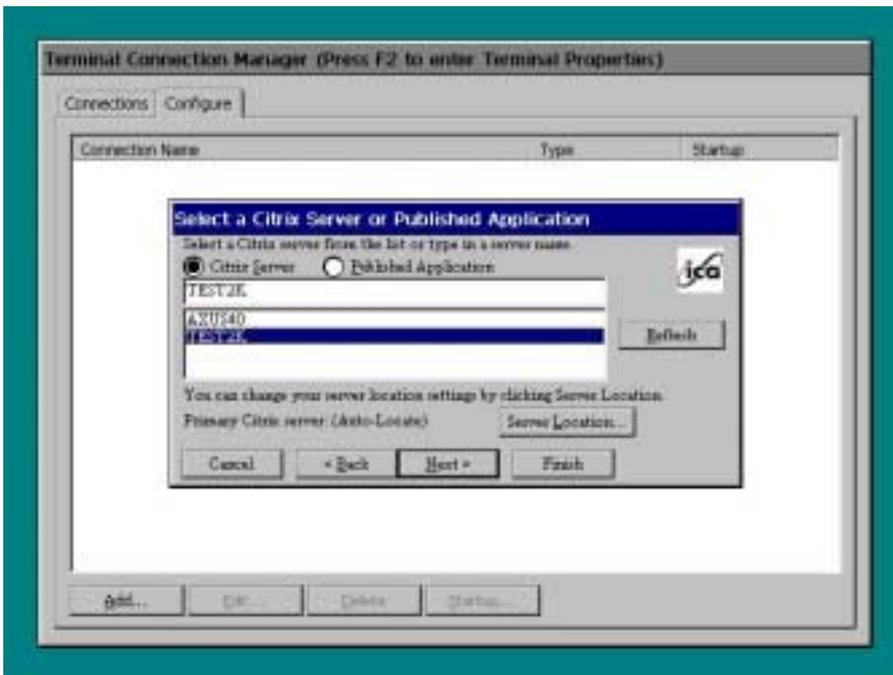
Select the type of connection you wish to have for your remote application.



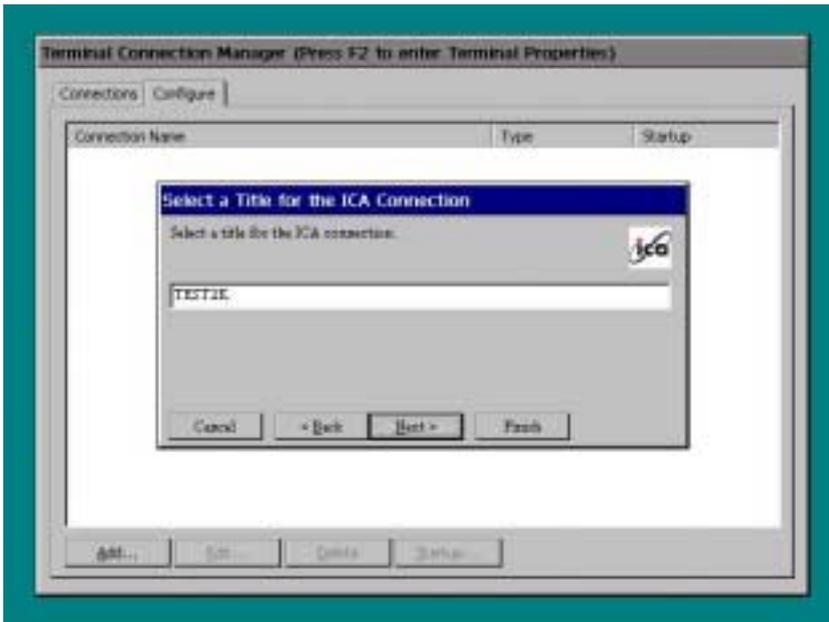
## Select a Citrix Server or Published Application



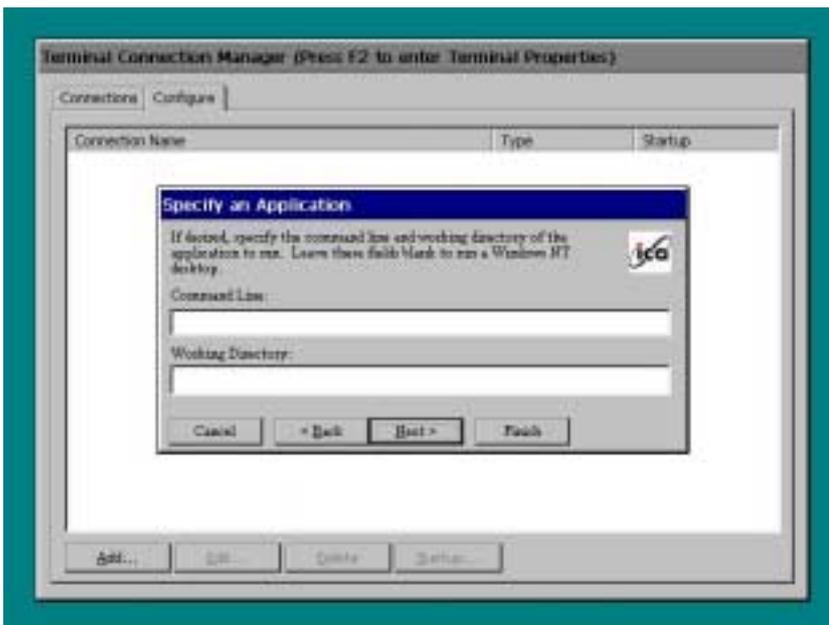
In this case our Citrix Server is selected to be TEST2K



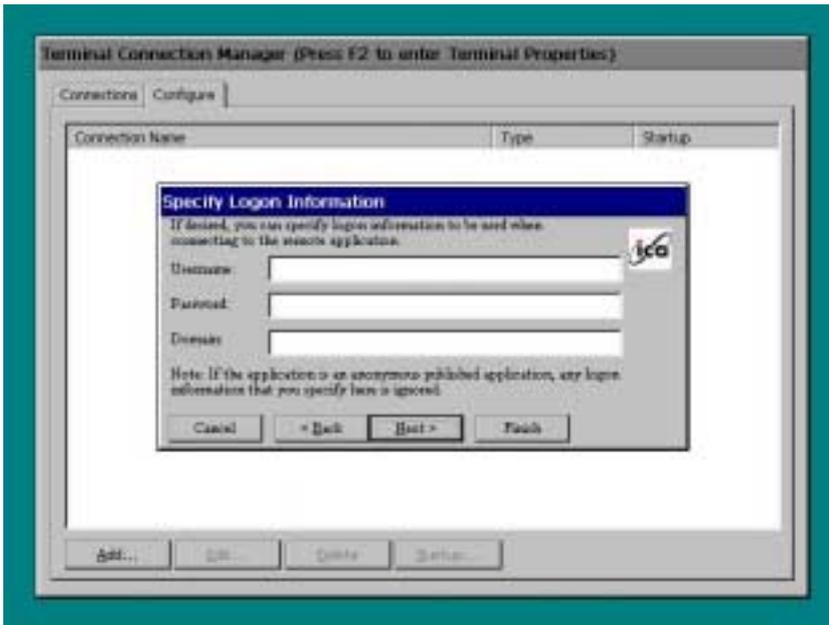
Put a title down for your ICA connection.



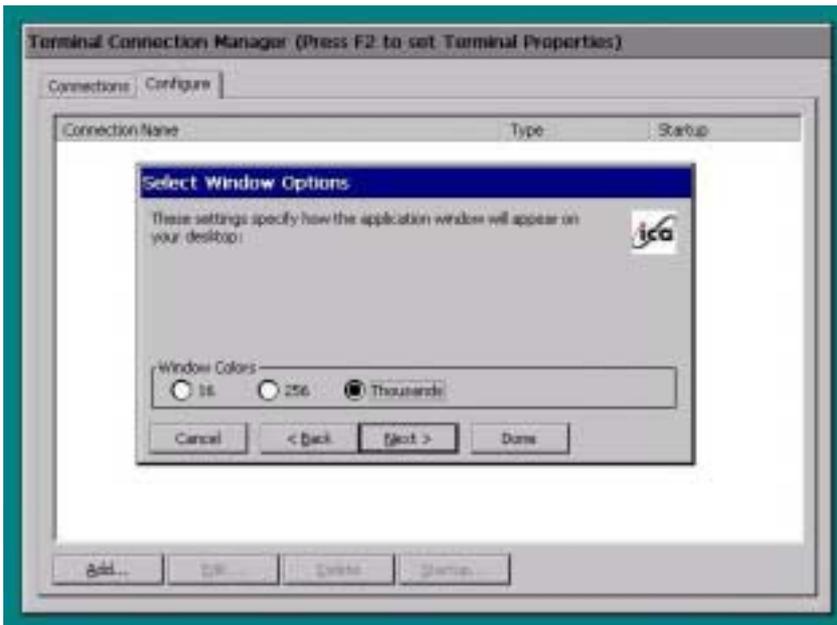
Specify your Command Line and Working Directory for your application.

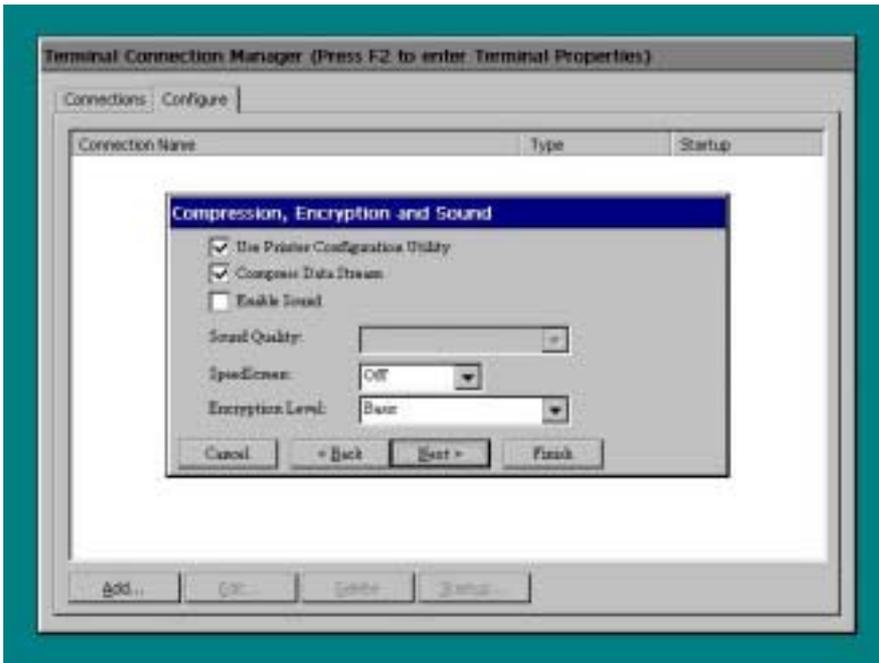


Specify your logon information.

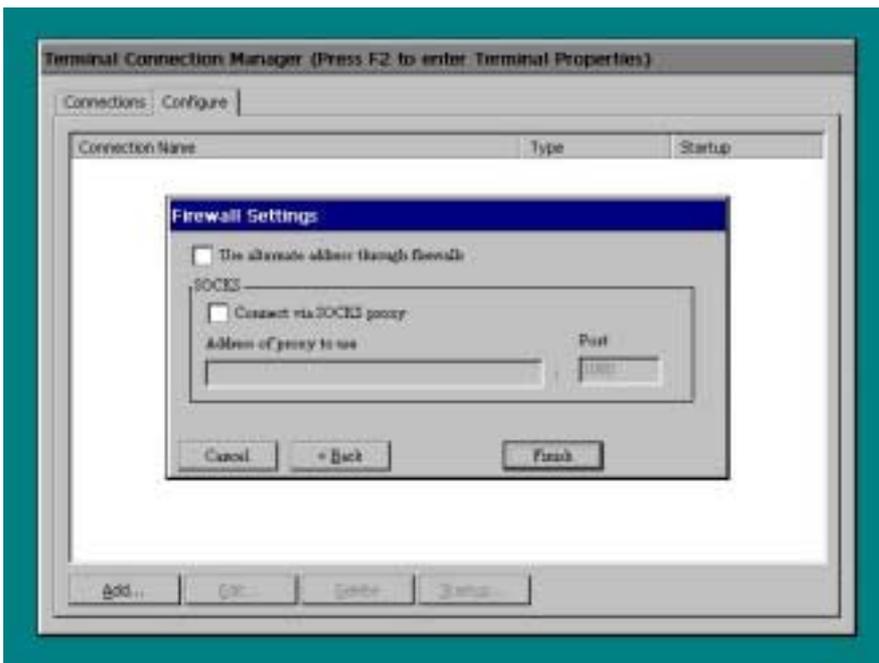


Select Window Options



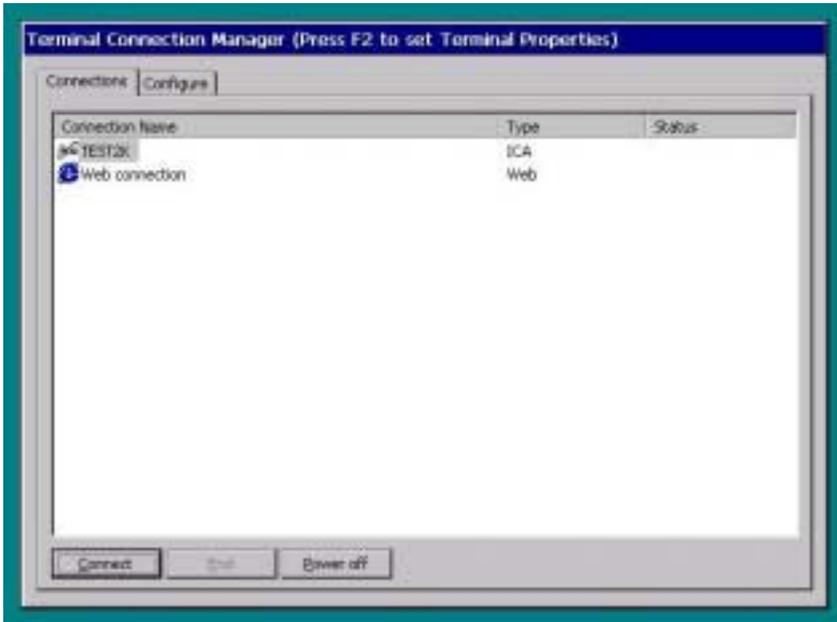


Configure your Firewall Settings

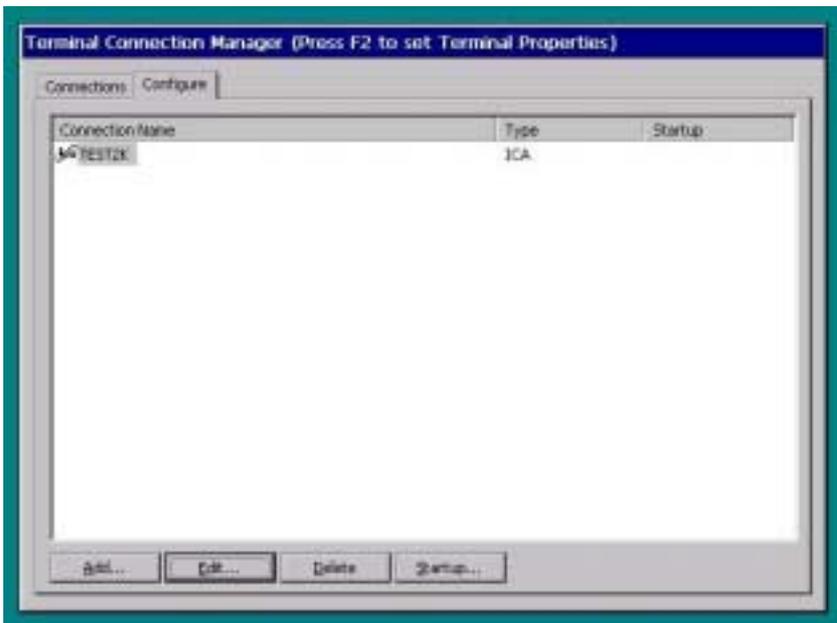


ICA Client TEST2K now created.

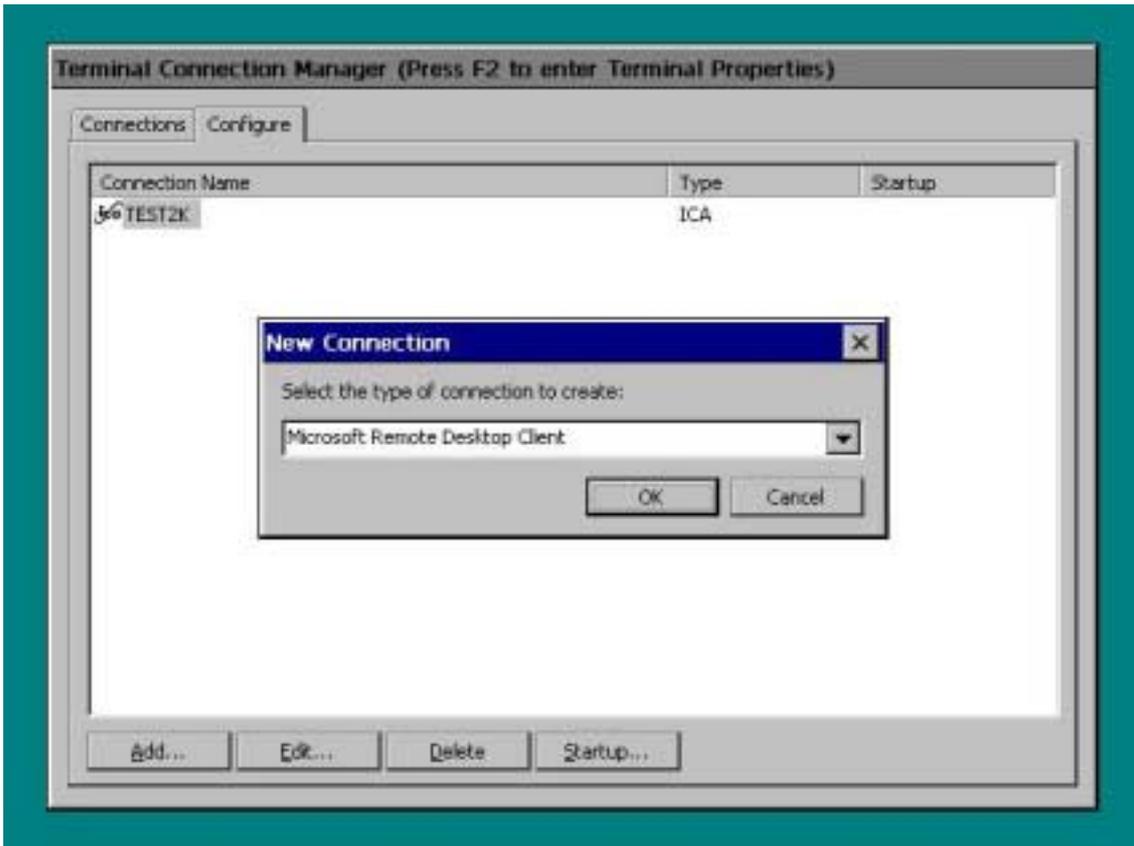
The following dialog box shows when ICA is created under Connections.



The following dialog box shows when ICA is created under Configuration.

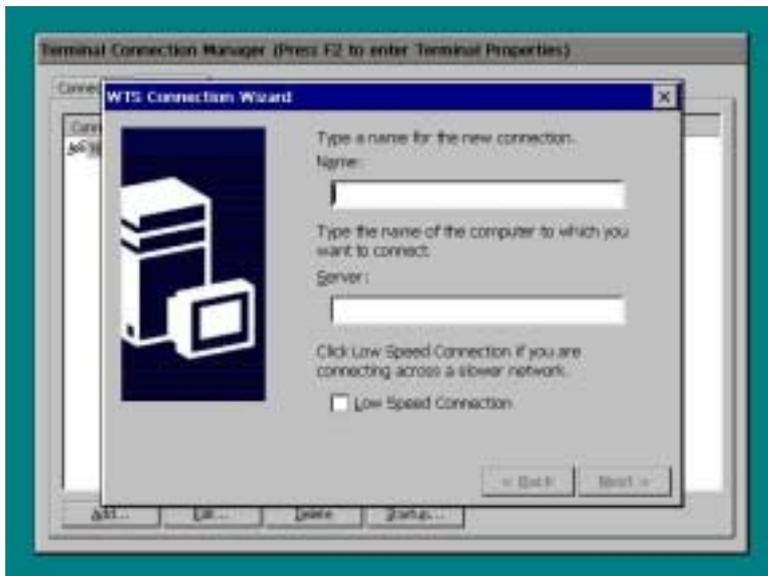


## RDP Connection



Terminal Connection Manager Step 1-2

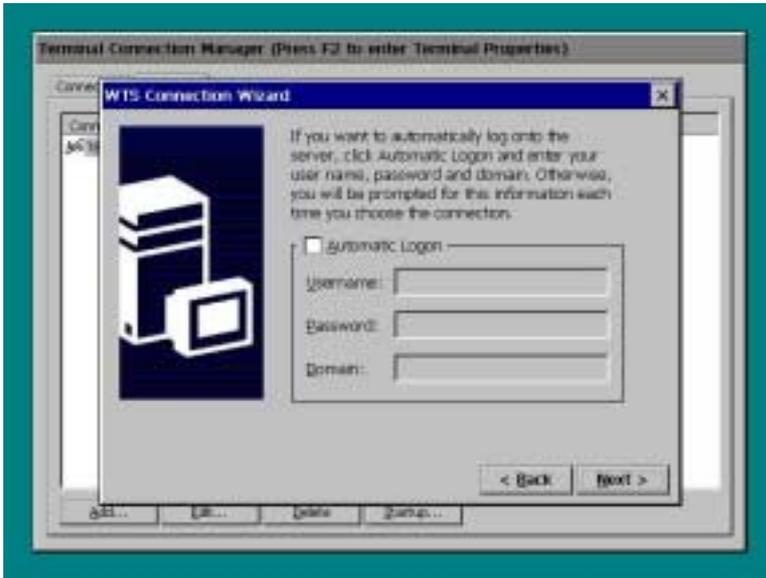
WTS Connection Wizard dialog box displayed. Enter the name of the new connection into the “Name” field. Enter the server IP into the “Server” field. Click on [NEXT] button.



In this case, we take server test2k as an example, type in the name “test2k” in both columns.



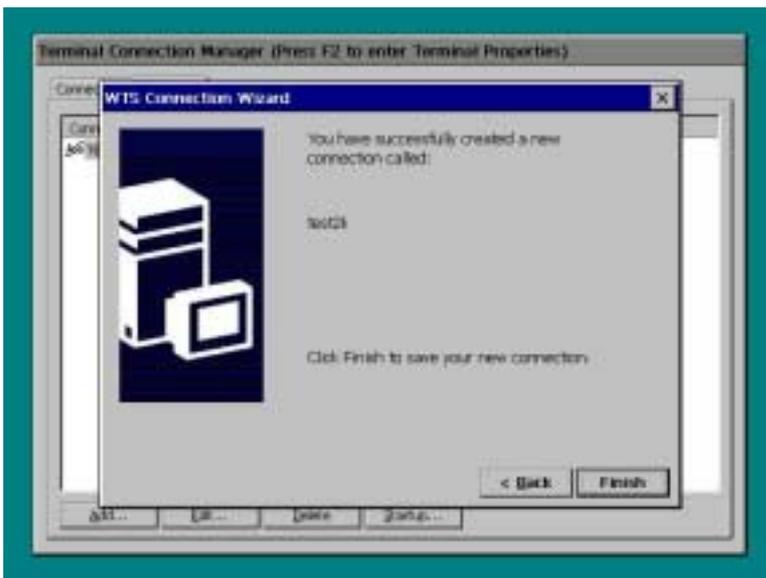
If you want to automatically log onto the server, click [**Automatic Logon**] and enter your user name, password, and domain. Otherwise, you will be prompted for this information each time you choose the connection. Click on [**NEXT**] button.



Using the default setting and click [**NEXT**] in the dialog box.

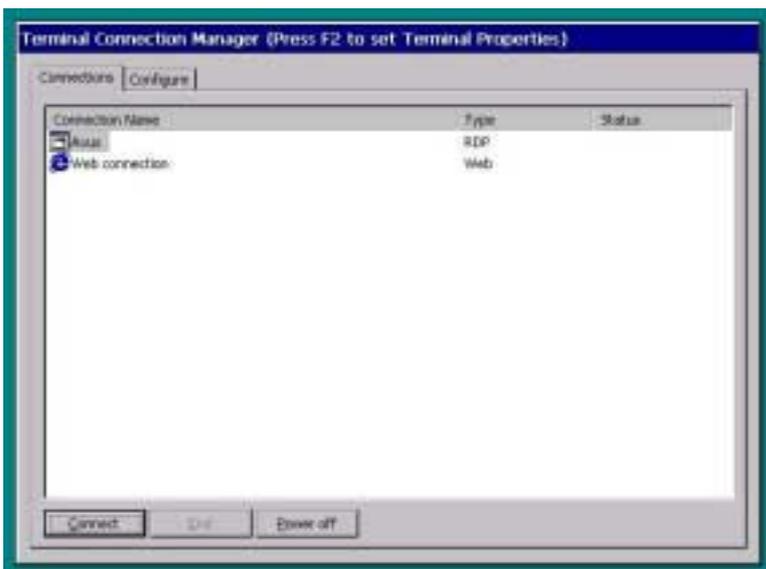


Click [**Finish**] button in dialog box

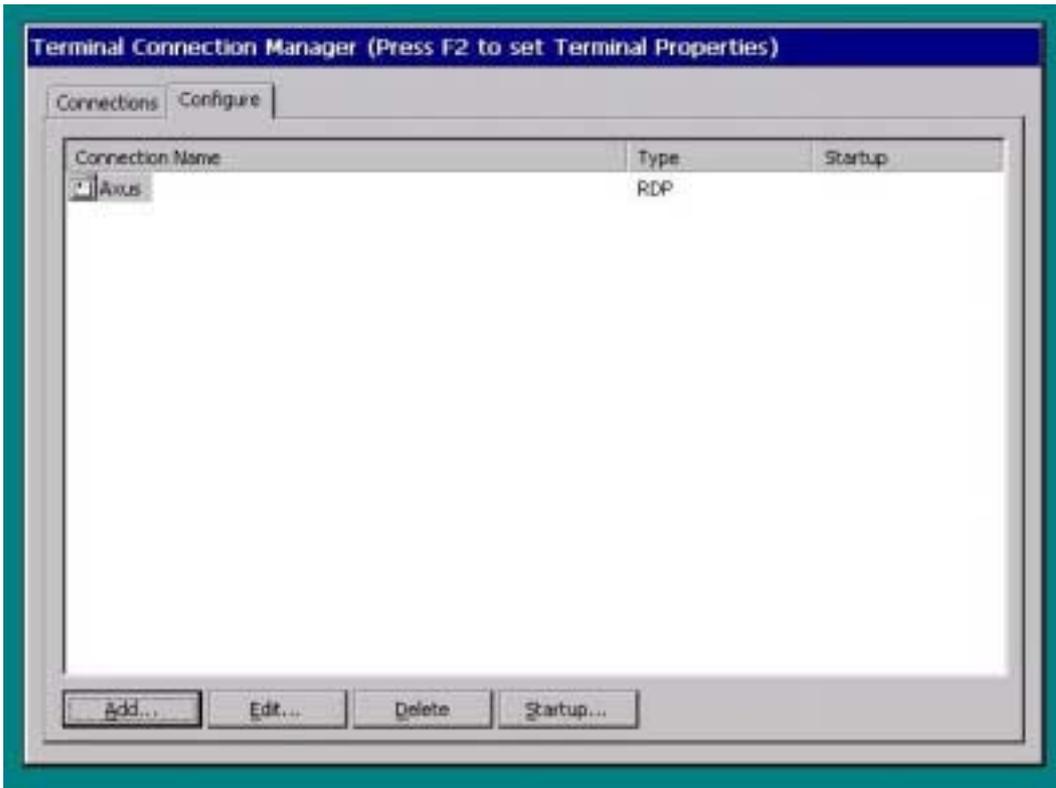


Now, you have successfully created a new RDP connection test2k.

The following dialog box shows when RDP is created under Connections.

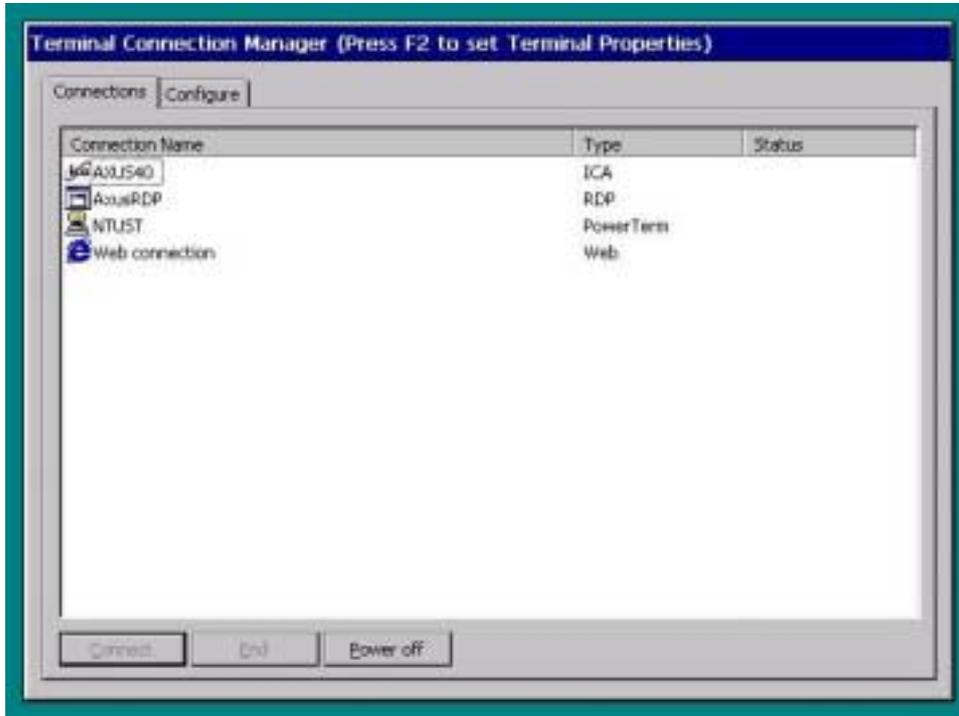


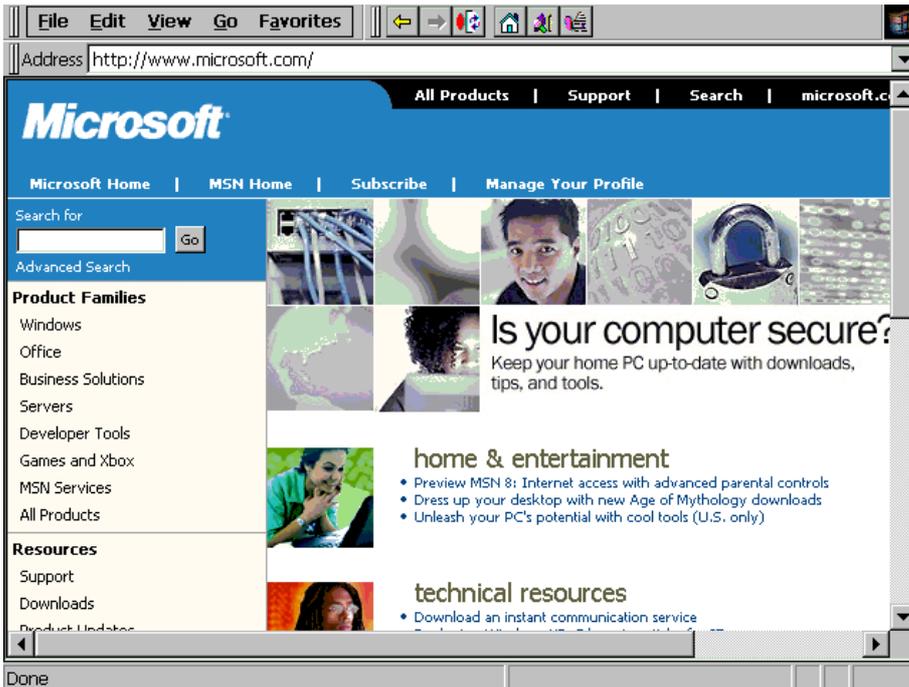
The following dialog box shows when RDP is created under Configuration.



## Internet Browser

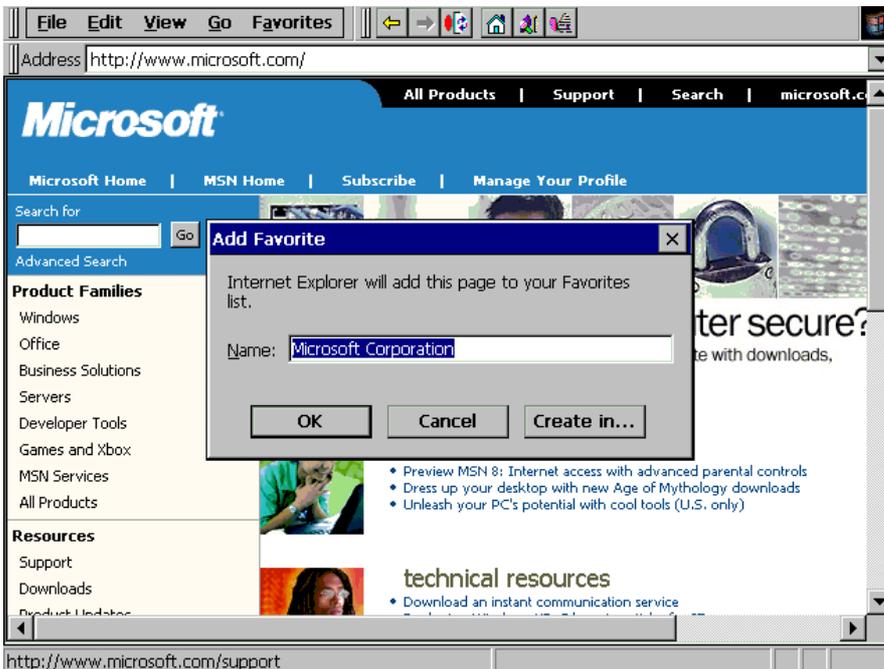
In WinCE 3.0 version, the connection for Internet Browser will need to be created by the users manually. However, in WinCE 4.0 version, Internet Browser is already in-build within the connections.



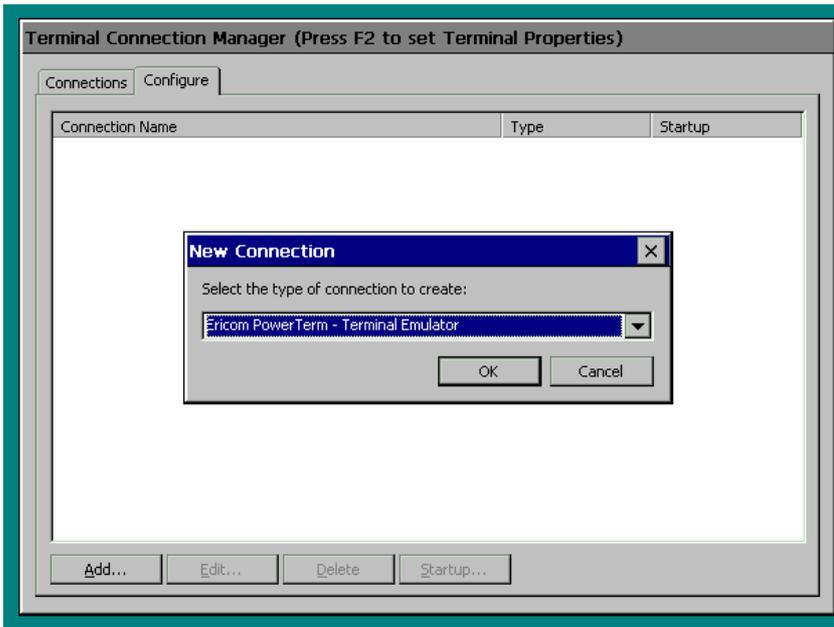


### Terminal Connection Manager Step 1-3

Add your own Web Connection to your favorite.

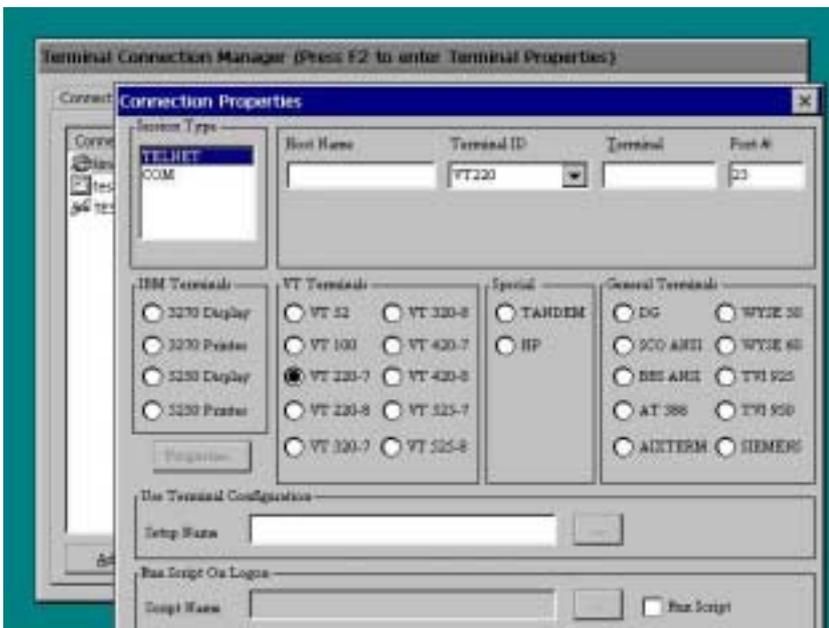


## Terminal Emulator

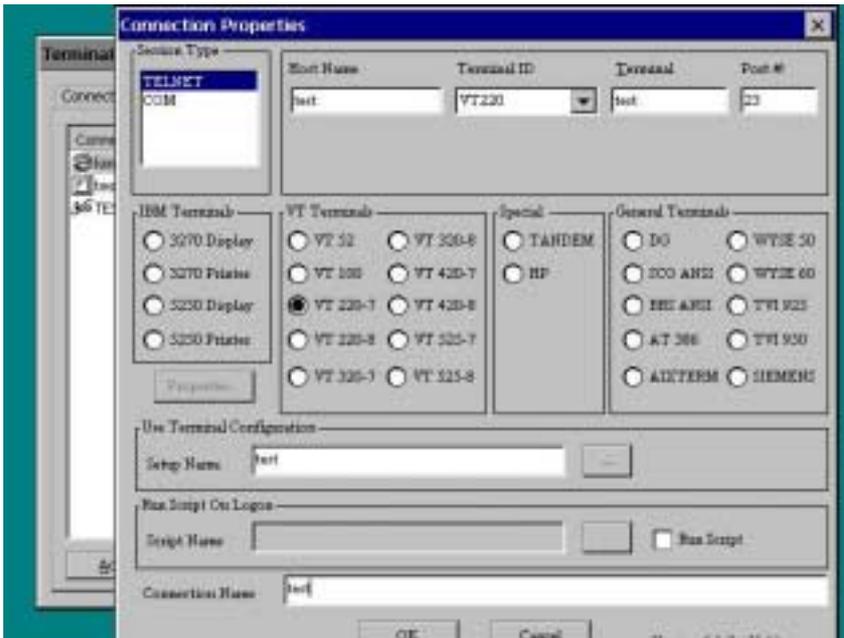


### Terminal Connection Manager Step 1-4

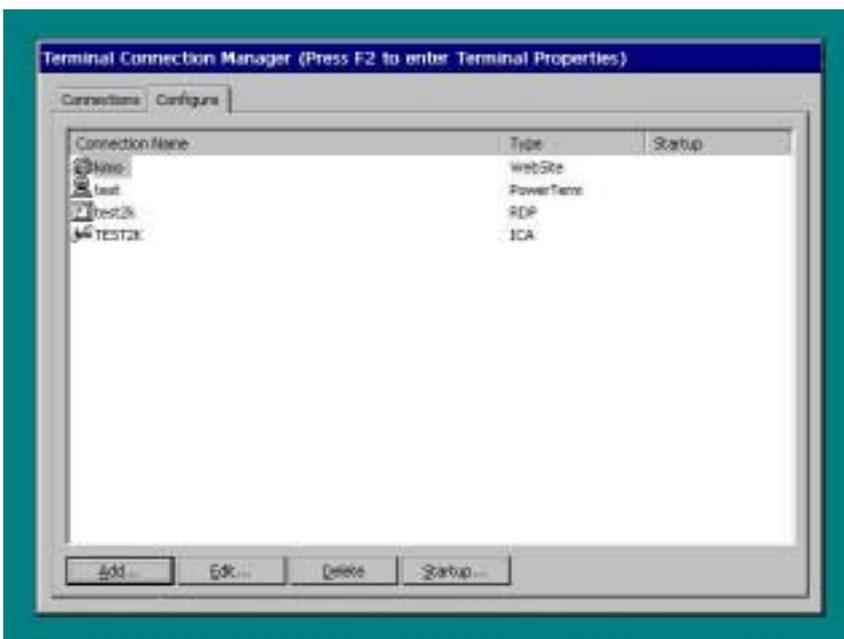
Select your Connection Properties



Type in your Terminal and Host name, in this case we selected “test” as our client.



Click on the ok icon to create your Power Term.

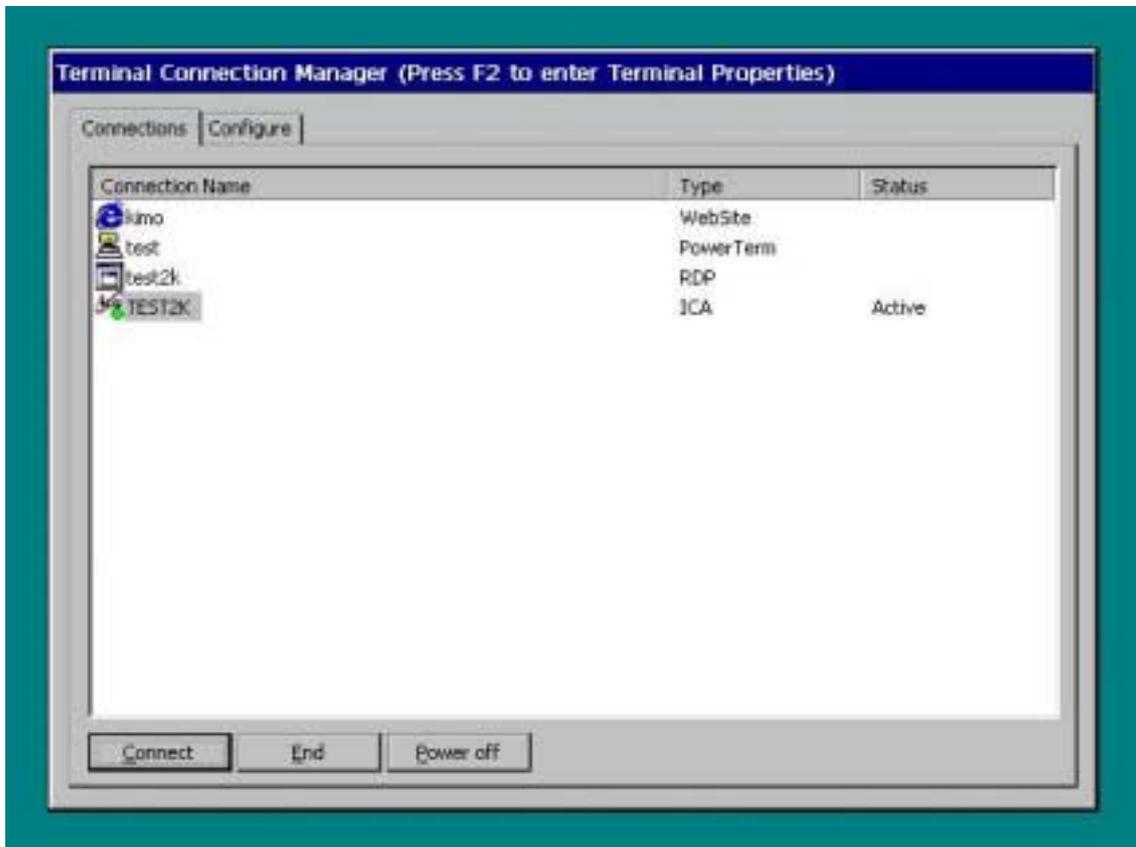


## Starting a connection

Click [Connections] button.

Click the [Connection Name] in the list that you want to connect.

Click [Connect] button



## Starting a Connection

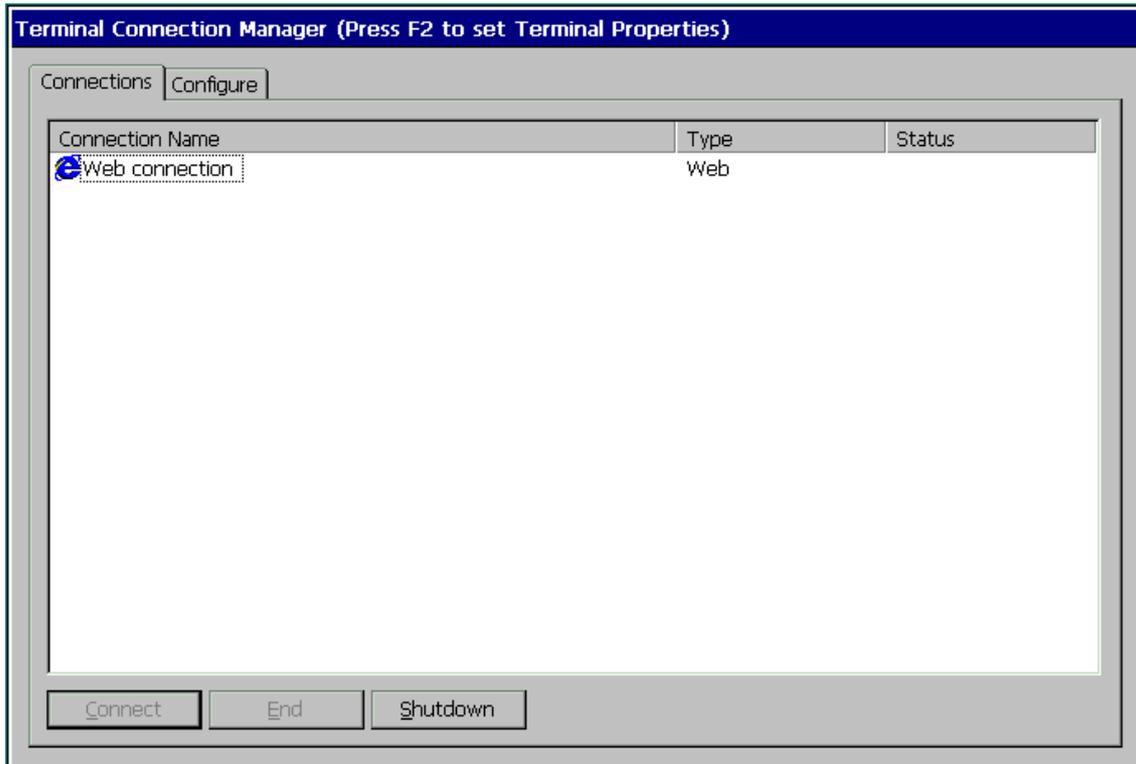
Now, you are connected! Once you have started a connection, you can use programs just as you would on a networked personal computer.

## Stopping Connections

To stop connection, click-disconnect or logo-off from the windows start menu.

## Terminal Connections Management

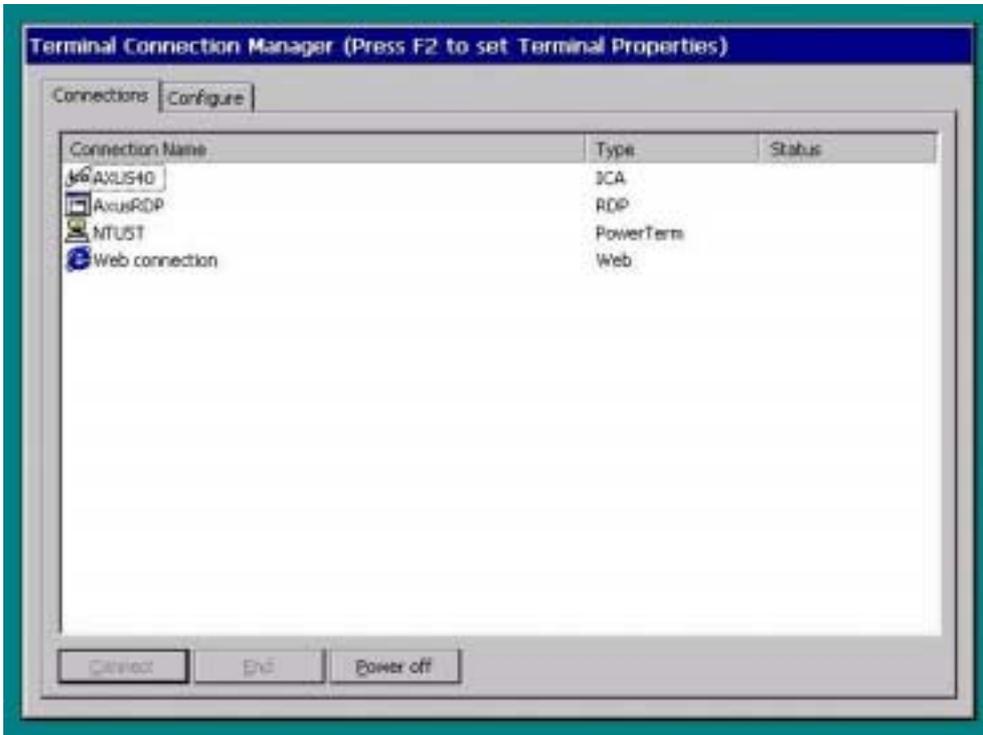
WinClient uses Terminal Connection Manager to manage connections with its server(s). The Terminal Connection Manager dialog box displayed after Setup Wizard closed, reboot or turn on WinClient in future. Terminal Connections Manager also can be invoked at anytime during normal terminal operation by pressing the “**Ctrl + Alt + End**”. Terminal Connection Manager dialog box consists of Connections and Configure properties. The Connections properties provide the interface that users can start sessions, switch among active sessions, and end sessions. The Configure properties also provide the interface that users can add, modify, delete and startup connections.



**The Windows-based Terminal shell with default connection**

## Using the Connections Properties

The Connections Properties page contains four controls: Connection Name List, Connect Button, End Button and Power Off Button .



The Windows-based Terminal shell with 2 connections defined (AA and BB).

## 1. Connection Name List

After a connection is added, the name and the type of the connection will show in the Connection Name List.

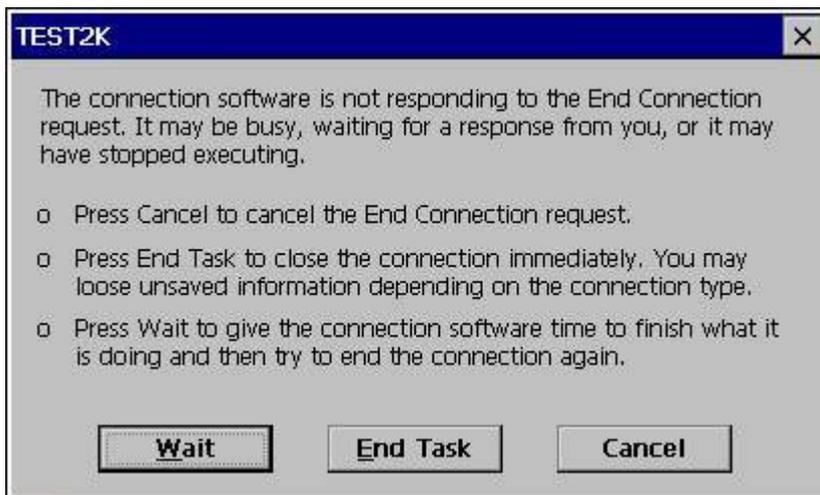
The Connection Name List allows user to view and select connections or end a connection. If user double-clicks on a connection in the [**Connection Name**] column, the effect is the same as selecting a connection and pressing the Connect button. Highlighting a connection and pressing the Enter key also has the same effect as a double-click.

## 2. Connect button

The Connect button is overloaded in terms of its functionality. If a connection is not active, the button serves to activate the selected connection from the Name List. If a connection is active, the button serves to switch between connections.

## 3. End button

The End button ends the connection process. When the user presses the “**End**” button, the Terminal Connection Manager post a message to the client. If the connection is still active after some specified amount of time (10 seconds by default), the user is given the option of terminating the process as shown in figure.



**The End Task dialog appears if a specified amount of time has passed and the connection is still active after having pressed the End button.**

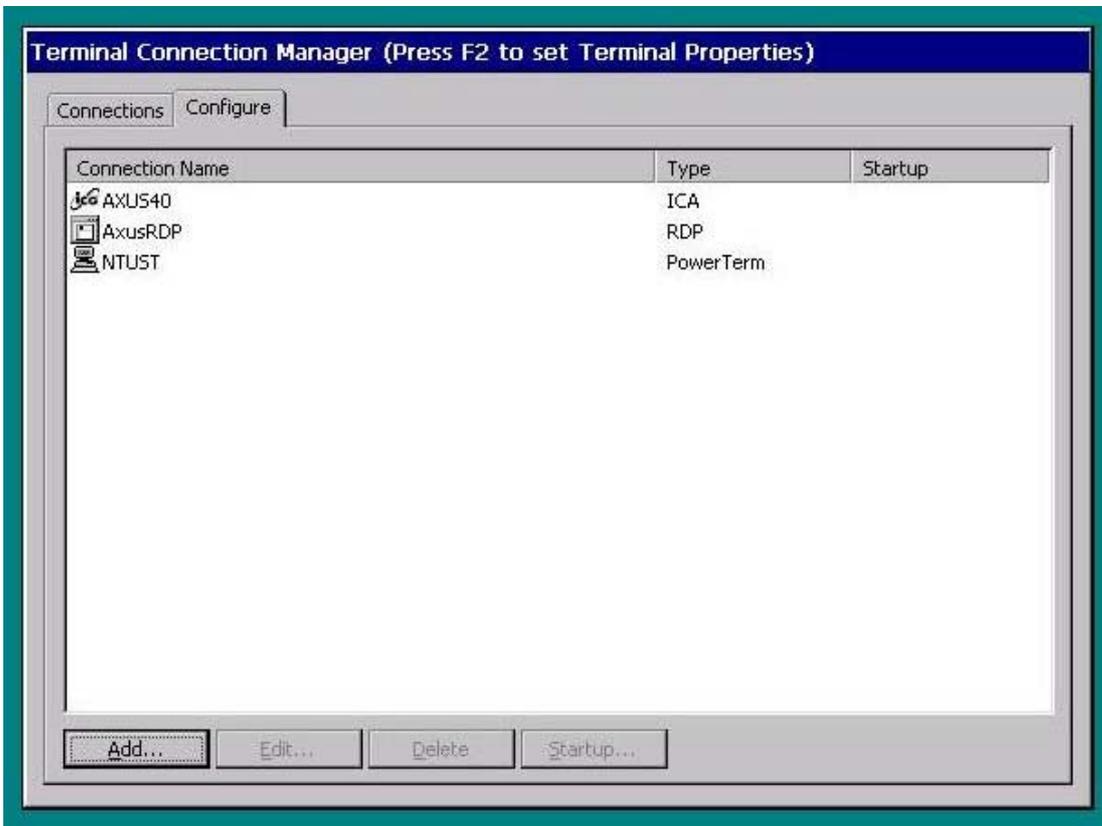
The client should respond to the message and give user the opportunity to shut down the connection. For example, in the case of RDP, the remote Windows NT desktop comes to the foreground and prompts the user as is shown by the following figure. The user will only receive this message if they are logged in. If the session was simply waiting for a user to login, the session will quietly exit.



**The Microsoft RDP client responds to a WM\_CLOSE message by prompting the user as shown.**

## Using the Configure Properties

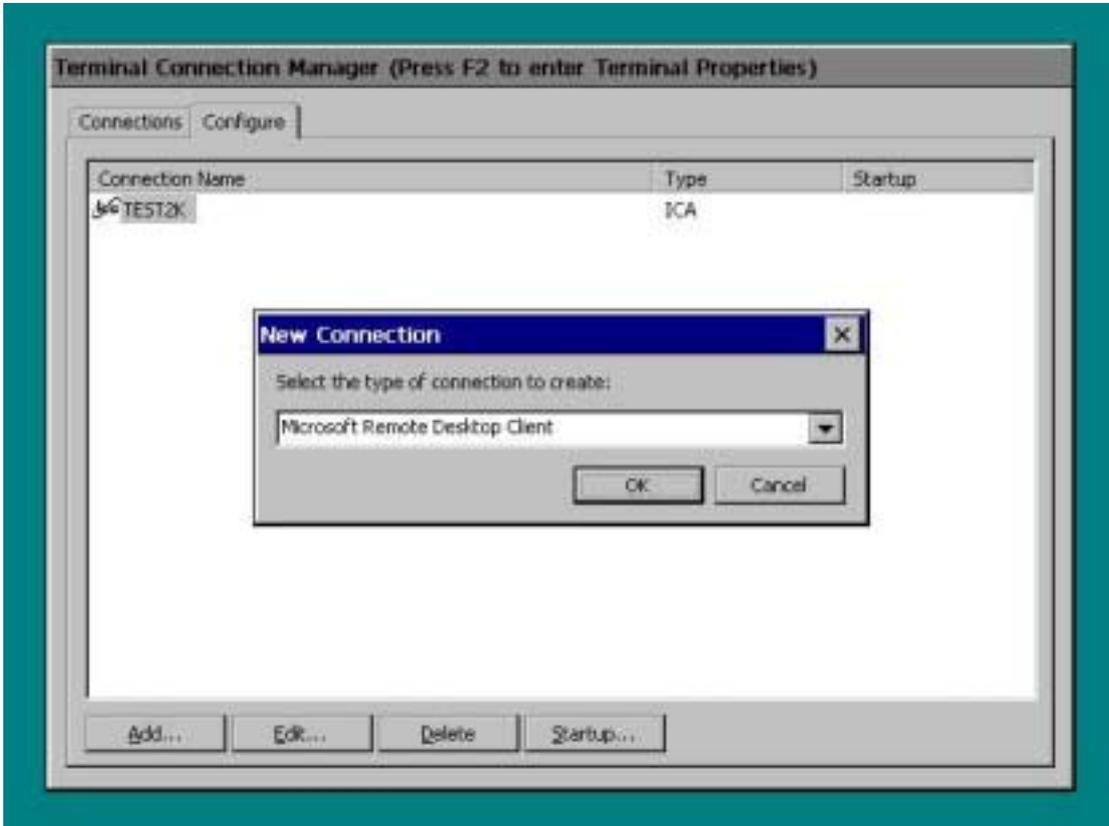
The “**Configure**” page consists of 5 controls: Add Button, Edit Button, Delete Button, Startup Button.



The Windows-based Terminal shell with no connections defined (View 2)

## 1. Add Button

The Add button allows the user to create a new connection. This figure shows the effect of pressing the “**Add**” button. The user is presented with a dialog box that allows them to select the type of connection to create.



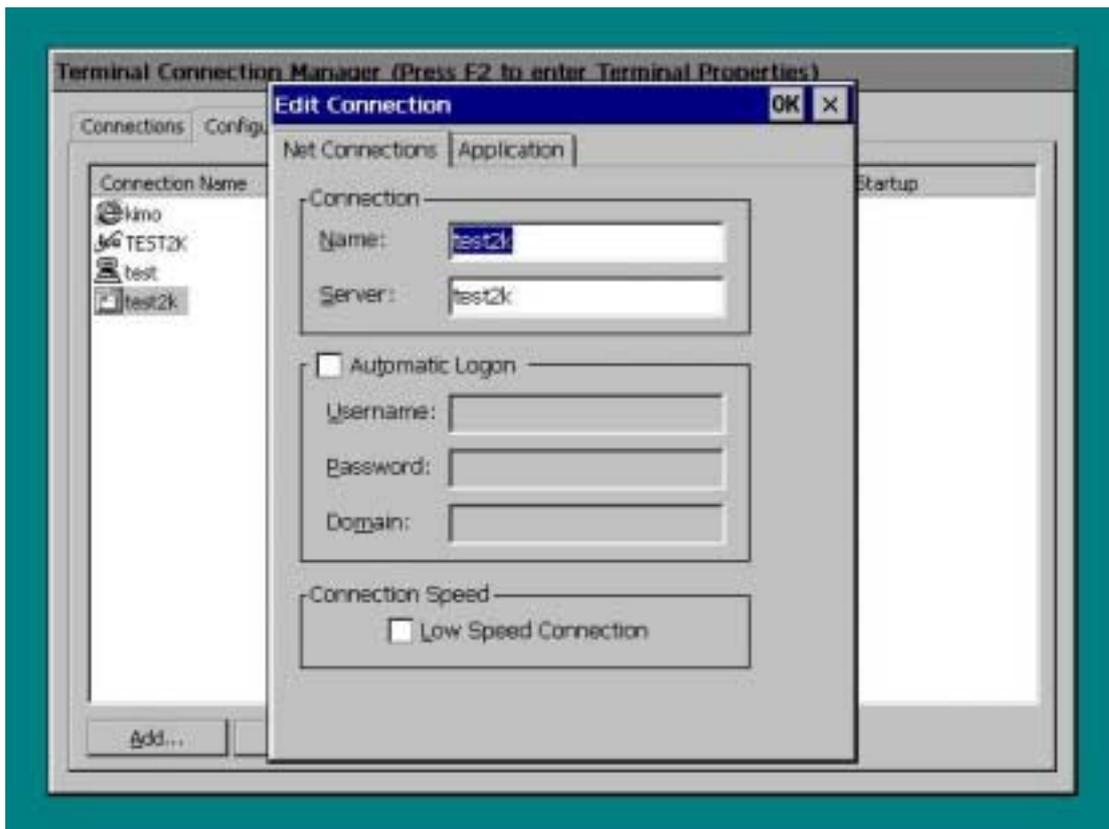
Pressing the Add button prompts the user for a connection type.

The following figure shows the dialog presented when selecting a RDP connection.



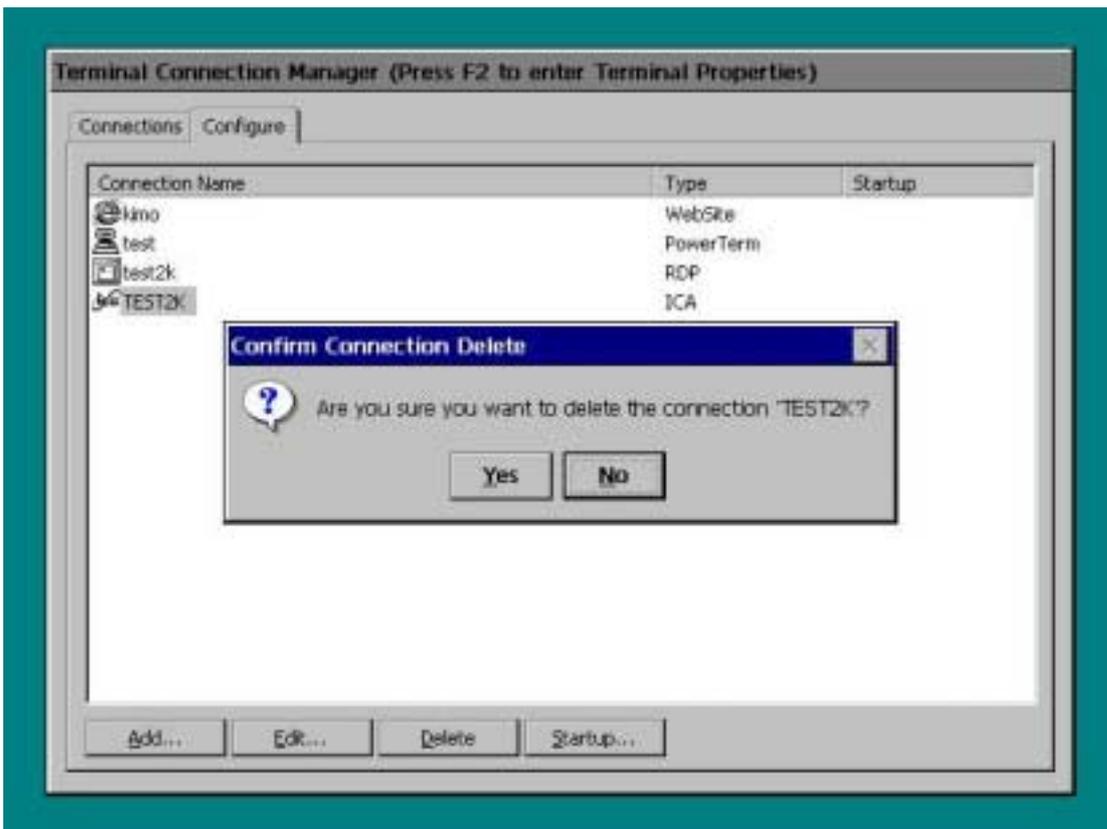
Selecting to add a “Microsoft Remote Desktop Client” connection starts the WTS Connection Wizard.

## 2. Edit Button



The Edit button allows the user to edit or modify the properties of an existing connection. Following figure shows the effect of pressing the Edit button for the connection named “AA” which is a RDP connection (acronym for Microsoft Remote Desktop Client). By pressing the “**Edit**” button, the shell starts the Edit Helper for RDP. **Selecting to edit the connection “AA” starts the Edit Helper for the “Microsoft Remote Desktop Client” connection type.**

### 3. Delete Button

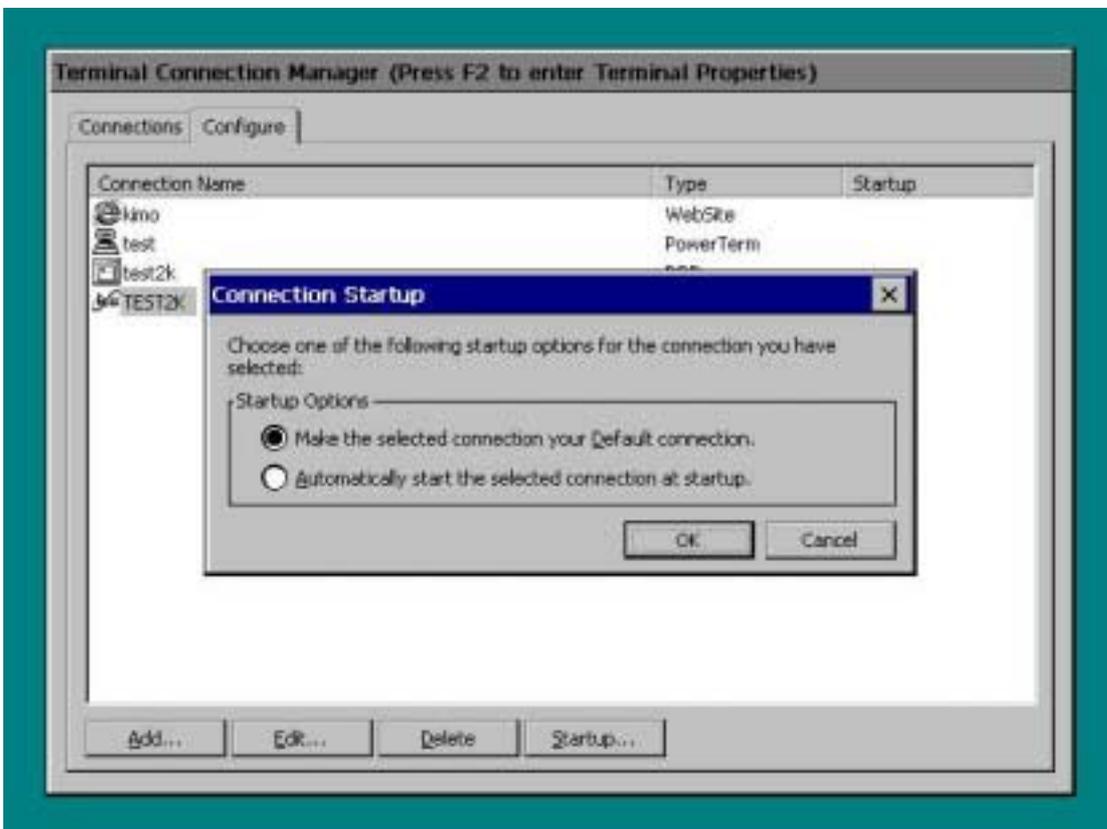


The Delete button allows the user to delete a connection. As shown by the following figure, the user will be prompted as to whether or not they really want to delete the connection. The shell will notify the user that an error occurred while attempting to delete the connection.

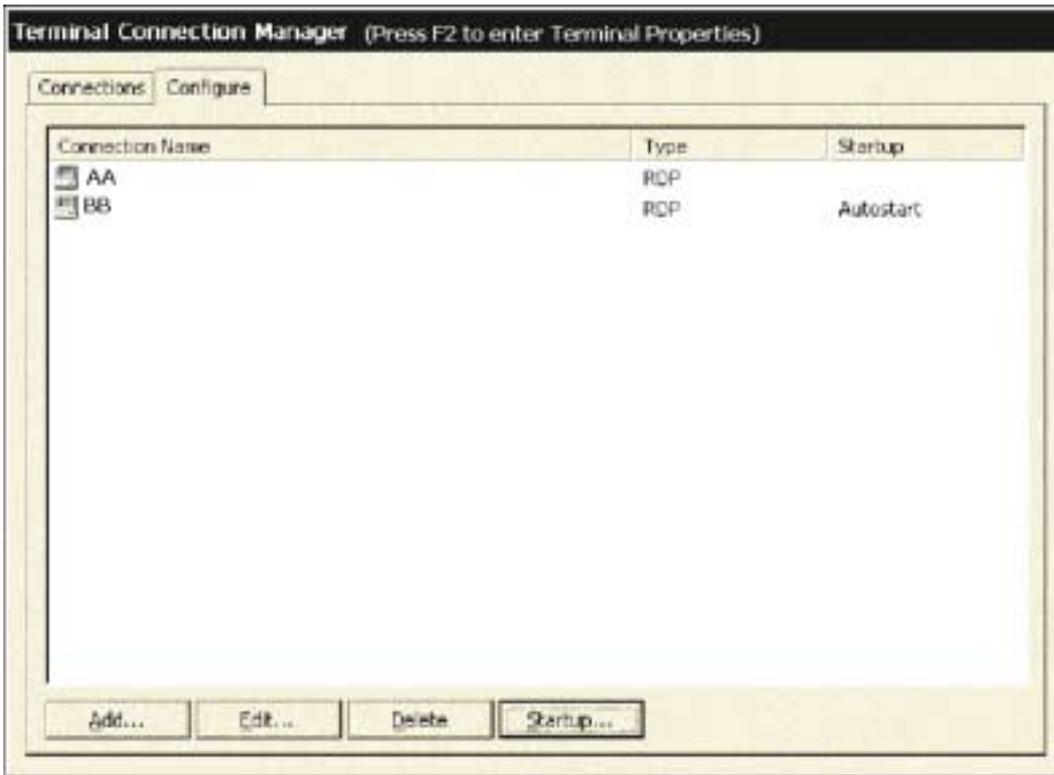
#### 4. Startup Button

The Startup button allows the user to specify the startup behavior of a connection. A connection's startup behavior can be either **“Default”** or **“Autostart”**. If a connection has been specified Default, it will be pre-selected in the list view when the shell starts up so that the user need only press the Enter key once to startup the connection. If the connection has been specified as Autostart, the behavior is the same as specifying a connection as Default with the one exception being that the shell will automatically start the connection process instead of requiring that the user press the Enter key. If a user does not select a Default connection, the first connection in the list will be specified as the Default connection.

The list view allows the user to view and select connections for the purpose of adding, editing, deleting, or specifying the startup behavior of a connection. If a user double-clicks on a connection in the **“Connection Name”** column, the effect is the same as selecting a connection and pressing the **“Edit”** button. Highlighting a connection and pressing the Enter key also has the same effect as double-click.



Selecting a connection's startup behavior



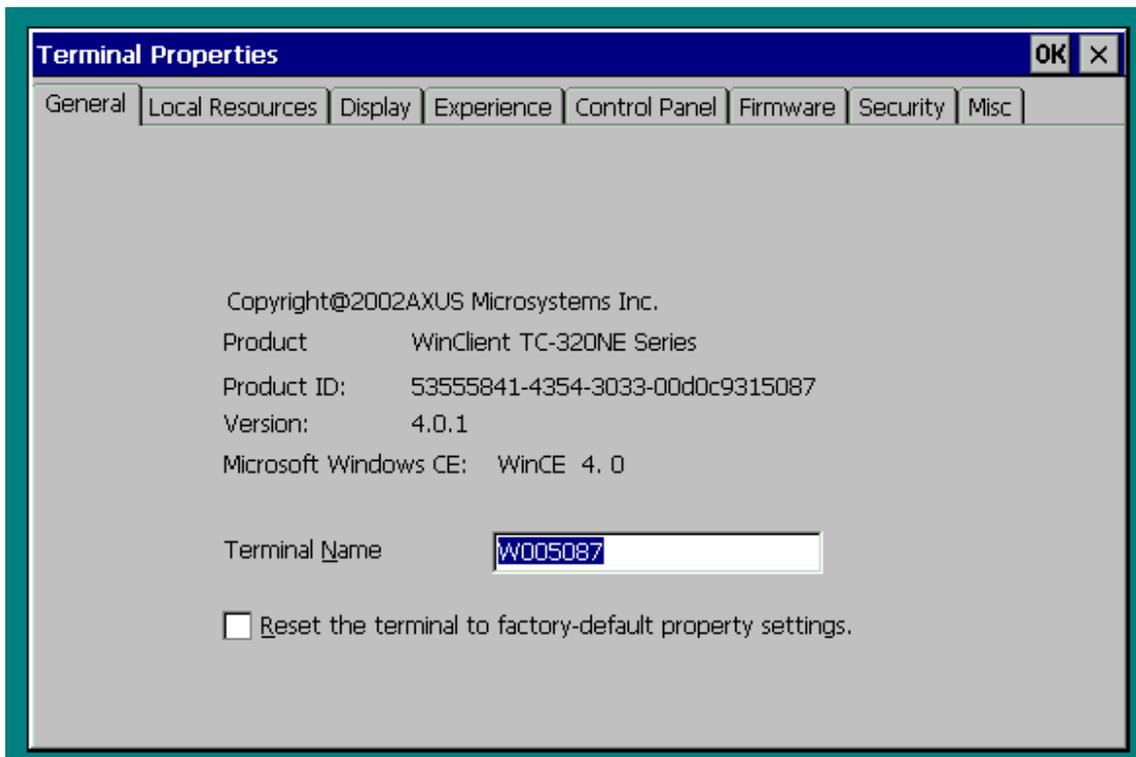
**The connection "BB" with its startup behavior set to Auto-start.**

## Changing the Terminal Properties

This chapter explains how to change the Terminal Properties using the Terminal Properties dialog box. Invoke the Terminal Properties dialog box by press “F2” key while Terminal Connection Manager is the most front window. Terminal Properties dialog box consists of eight properties, General, Local Resources, Display, Experience, Control Panel, Firmware, Security, and Miscellaneous that can be invoked by press respective buttons.

### General Properties

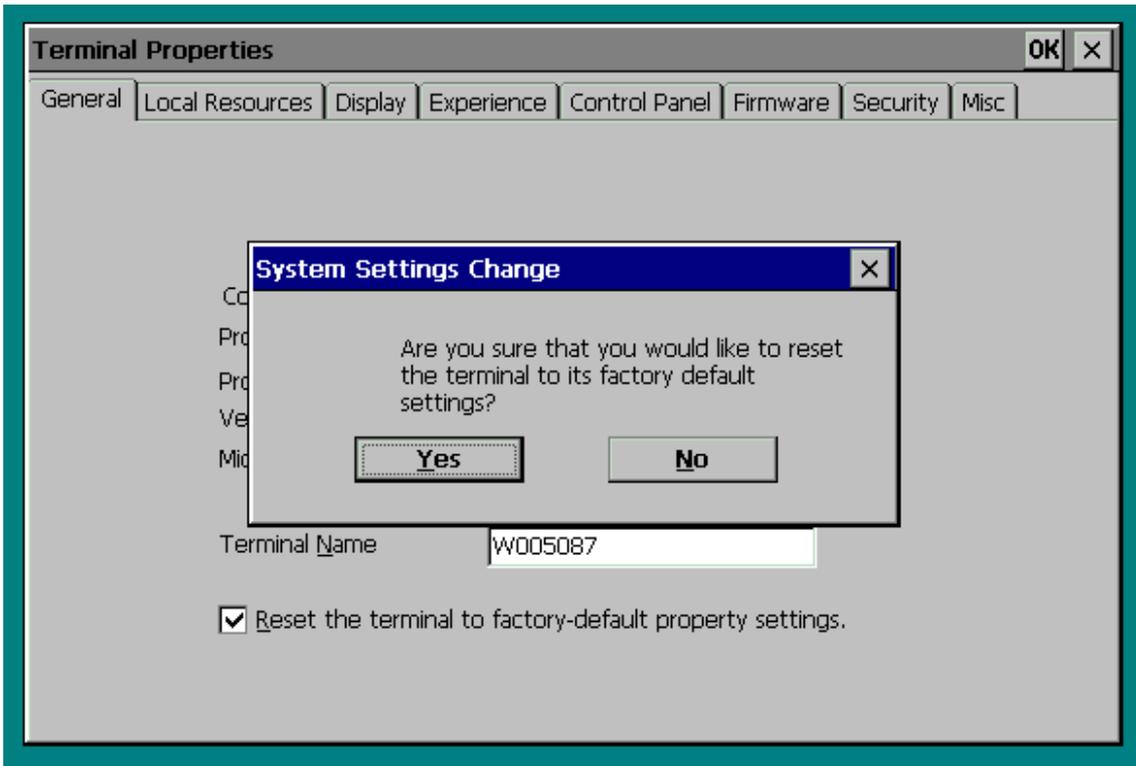
General Properties page describes the general information of WinClient.



### General Properties

## Reset the Terminal to Factory Default Settings

To reset the terminal properties to factory default settings, click the "**Reset the terminal to factory default property settings**" button to clear all the settings in on-board flash memory. When System Settings change dialog box display, click "**Yes**" button. Confirm erase all settings Click "**Reboot**" button in the Confirm Erase All Settings dialog box. All data in flash memory will be erased, including all connection configurations.



**Reset the terminal to factory default property settings**

## Local Resources Properties

Local Resources Properties page allows you to add and configure your local devices including sound, disk drives, Printers, Serial Ports and Smart Cards .



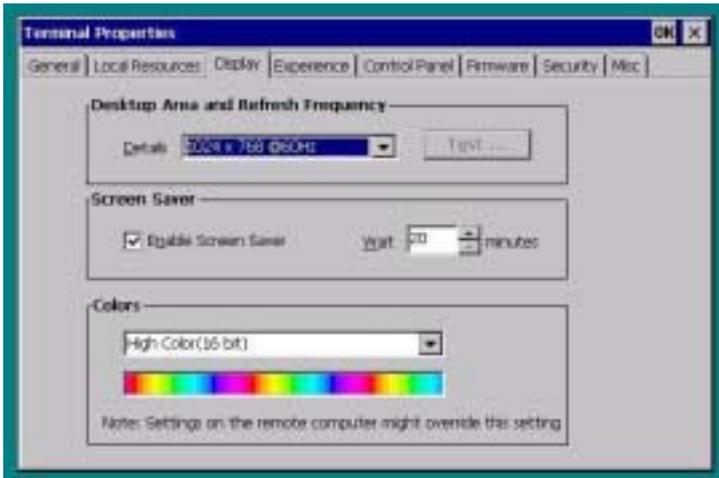
### Local Resources Properties

The default are set as Printers and Smart Card. To add local devices, simply click on the items that you need.

## Display Properties

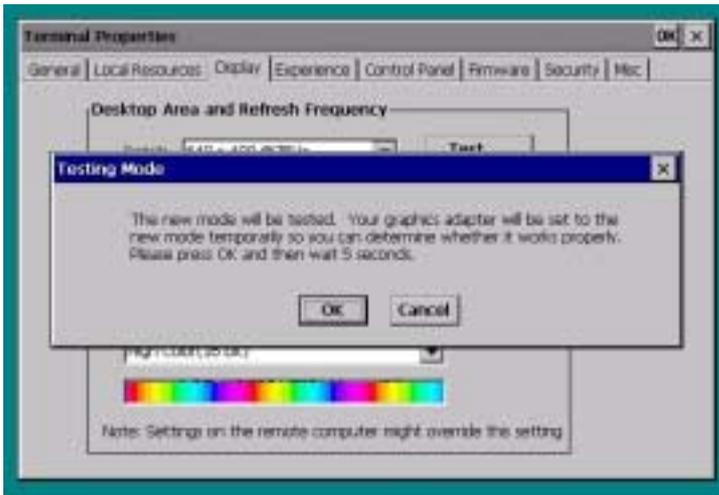
Display Properties page let you configure your terminal's display. The functions of control buttons are as follow:

**Desktop Area and Refresh Frequency:** The Desktop Area Refresh Frequency scrolling list displays current Terminal's display resolution mode. You may choose other resolution from the Desktop Area and Refresh frequency scroll list. To ensure your selection works with your monitor, click "**TEST**" button.



**Display Properties-1**

If you see the test image properly then click “**OK**” button, otherwise select other resolution and test again.



## Display Properties-2

**Screen Saver:** Set the Screen Saver enable or disable. When Screen Saver set enable, select the display background and adjust the amount of elapse time to start the energy saver

**Colors:** The Colors scrolling list displays current color depth. You may choose other color depth from the Colors scroll list.

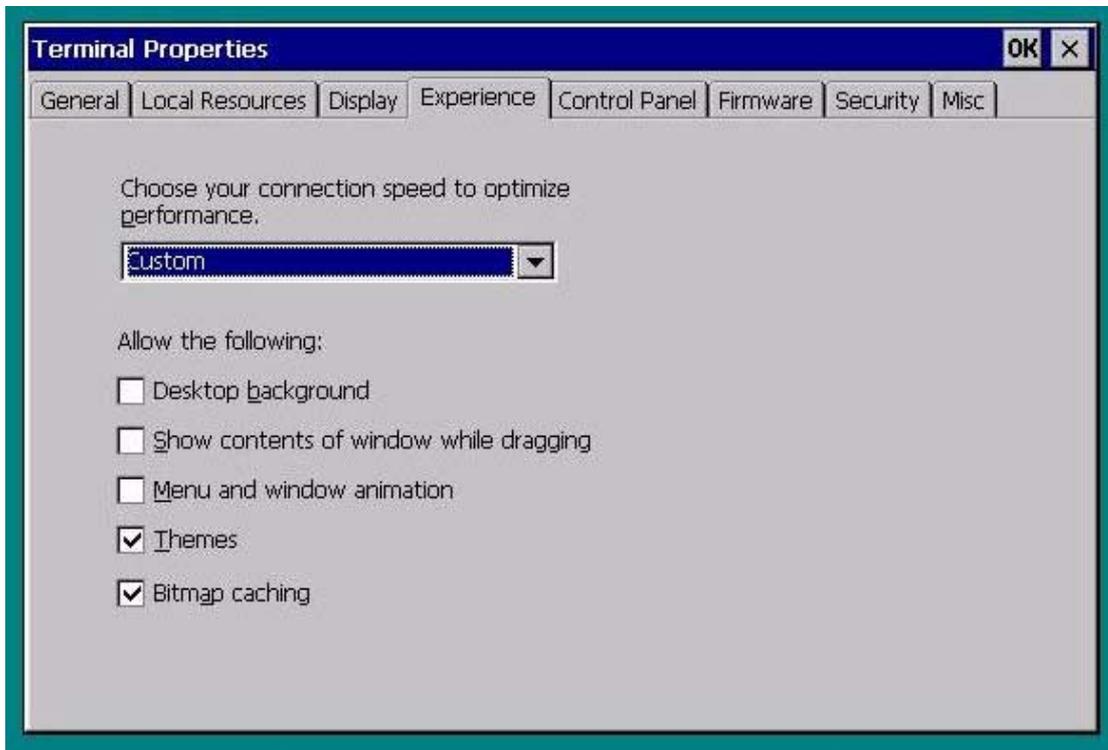
Click “**OK**” button to save changes and quit the Display Properties page. Click “**Cancel**” button to quit the Display Properties without save changes.

### Note:

Some of Terminal’s display resolutions and colors support by specific H/W platforms only.

## Experience Properties

Experience Properties page allows you to choose your own connection in order to maximize your client's connectivity performance.



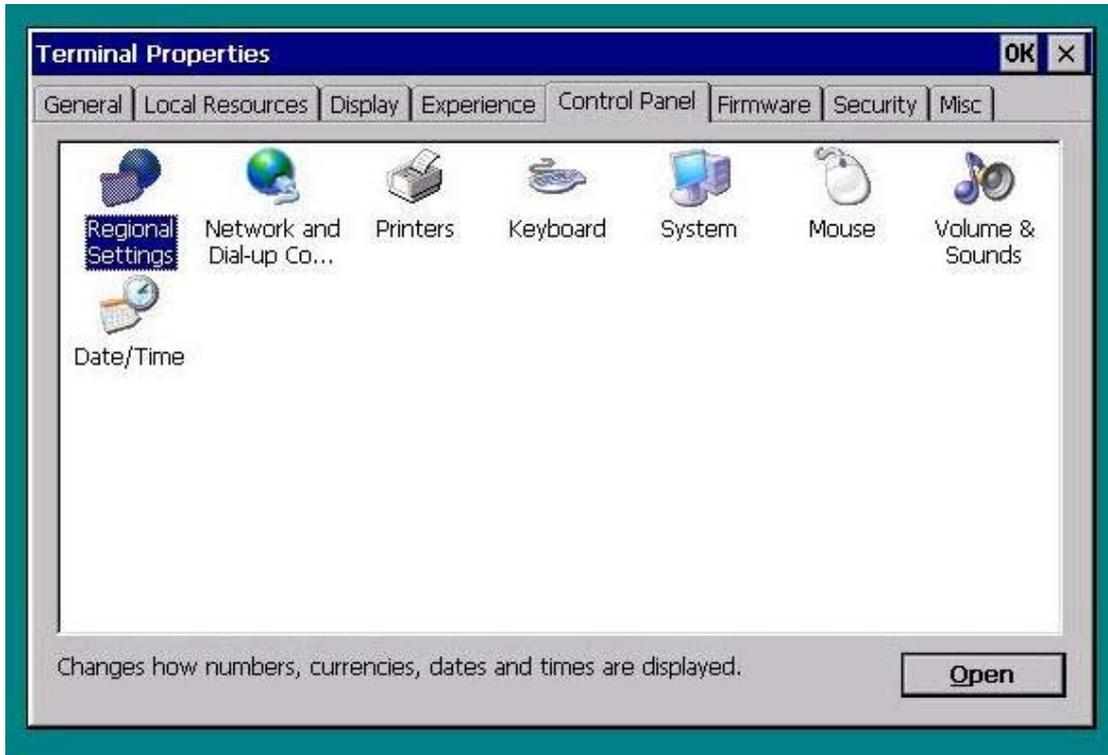
## Experience Properties

The connection allow the following configuration to be set-up :

1. Desktop background
2. Show contents of window while dragging
3. Menu and window animation
4. Themes
5. Bitmap caching

## Control Panel

Control Panel Properties is specially design for setting up the basic configuration of your clients. It includes the following :



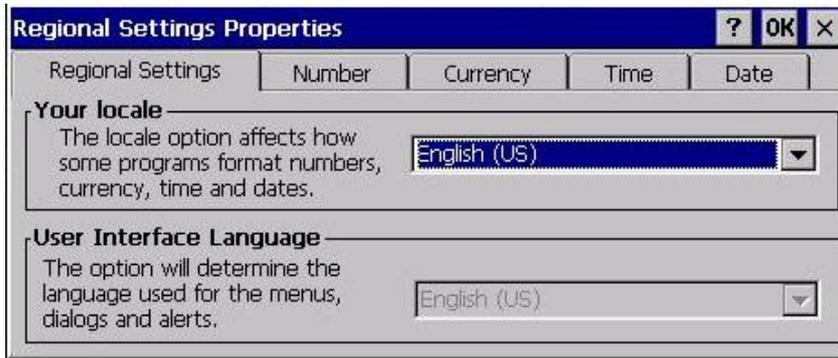
### Control Panel Properties

1. Regional Settings
2. Network and Dial-up Properties
3. Printers
4. Keyboard
5. System
6. Mouse
7. Volume & Sounds
8. Date/Time

## Regional Settings Properties

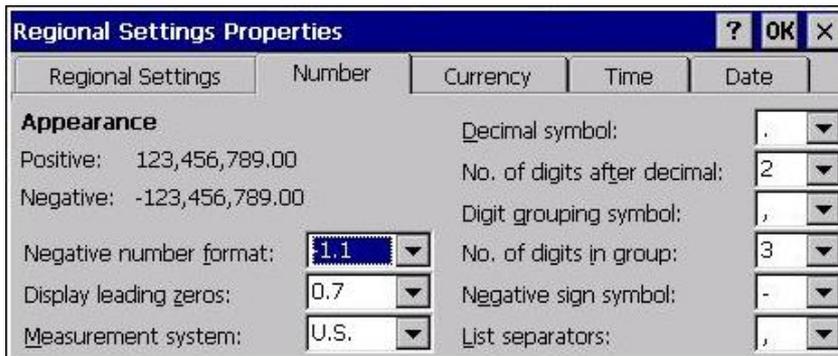
Regional Setting Properties allow you to change the locale and the user interface language for your clients. It includes how numbers, dates, currencies and times and all of these elements will change accordingly to your selected adjustments.

The Keyboard mapping and driver will be changed accordingly when you change the Locale.



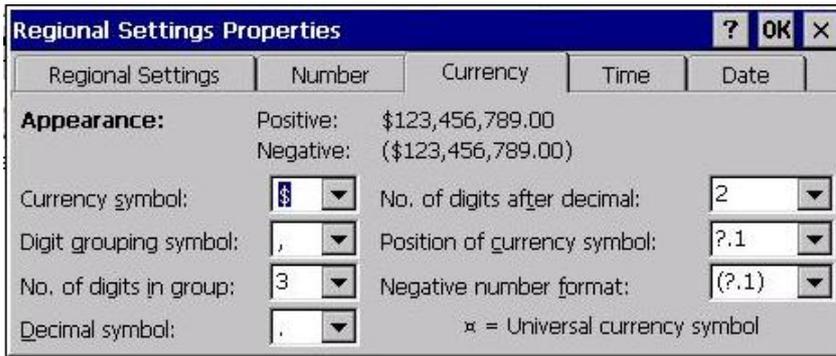
## Regional Setting Properties

### Number:



## Regional Setting Properties- Number

## Currency



The image shows the 'Regional Settings Properties' dialog box with the 'Currency' tab selected. The 'Appearance' section displays the current settings for currency formatting. Positive numbers are shown as '\$123,456,789.00' and negative numbers as '(\$123,456,789.00)'. The 'Currency symbol' is set to '\$', 'No. of digits after decimal' is '2', 'Digit grouping symbol' is ',', 'Position of currency symbol' is '?.1', 'No. of digits in group' is '3', and 'Negative number format' is '(?.1)'. A note at the bottom indicates that 'x' represents the universal currency symbol.

Regional Settings	Number	Currency	Time	Date
<b>Appearance:</b>				
Positive:		\$123,456,789.00		
Negative:		(\$123,456,789.00)		
Currency symbol:	\$	No. of digits after decimal:	2	
Digit grouping symbol:	,	Position of currency symbol:	?.1	
No. of digits in group:	3	Negative number format:	(?.1)	
Decimal symbol:	.	x = Universal currency symbol		

### Regional Setting Properties – Currency

## Time



The image shows the 'Regional Settings Properties' dialog box with the 'Time' tab selected. The 'Appearance' section displays the current settings for time formatting. A 'Time sample' is shown as '11:50:38 PM'. The 'Time style' is set to 'h:mm:ss tt', and the 'Time separator' is set to ':'. The 'AM symbol' is 'AM' and the 'PM symbol' is 'PM'.

Regional Settings	Number	Currency	Time	Date
<b>Appearance</b>				
Time sample: 11:50:38 PM				
Time style:	h:mm:ss tt			
Time separator:	:			
AM symbol:	AM			
PM symbol:	PM			

### Regional Setting Properties – Time

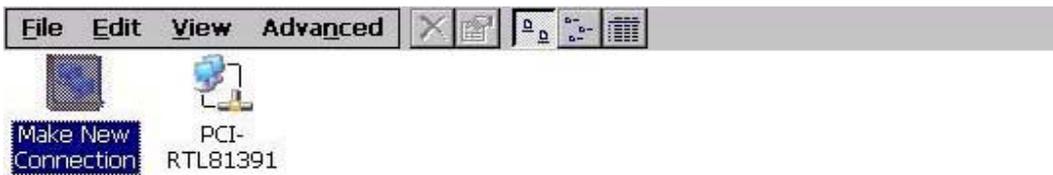
## Date



**Regional Setting Properties - Date**

## Network and Dial-Up Properties

This properties allows you to set up the configuration for your Network and Dial-up connections.

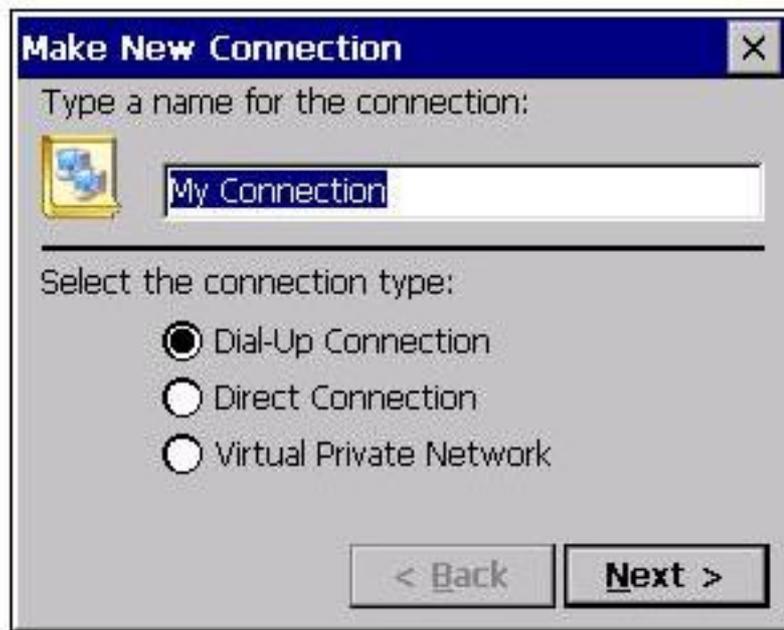


## Dian Up Properties

Dial-Up Properties contain 3 different types of connections.

### 1. Dial-Up Connection

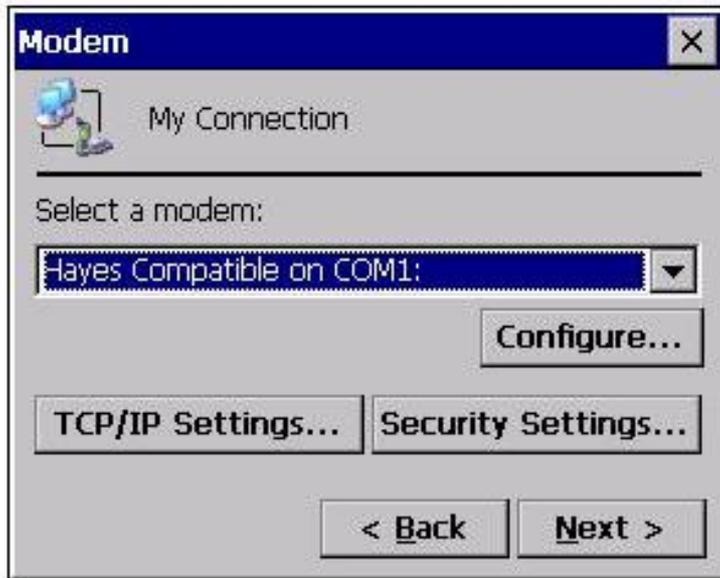
Dial-Up Connection page let you configure your Modem and dial up to a RAS Server. The communication between the system and the clients is connected through dial-up modem.



### Dial-Up Connection -1

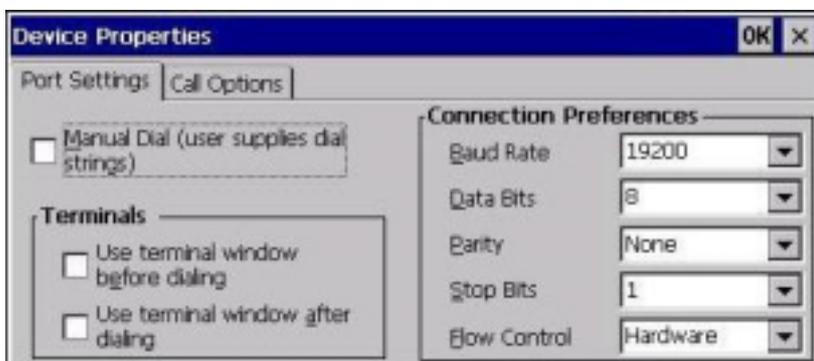
Setting up your Dial-Up connection, simply follow steps below to dial up to RAS server when using a modem:

1. Select the serial port or modem to dial-in: Connect Hayes compatible modem to the selected port.



### Dial-Up Connection-2

2. If you would like to change TCP/IP settings to this RAS connection, click on "Configure or TCP/IP Settings" buttons respectively. And within configure device properties you can adjust the Port Settings and the Call Options to your standard requirement..



### Dial-Up Connection - 3

3. If “Hayes Compatible on COM1:” or specific PCMCIA modem card (if the optional built-in PCMCIA slot has modem card inserted) is selected, input the telephone number inside “Telephone Number” group for dialing. Country code and Area code have to be inputted to make the dialing number formed correctly.



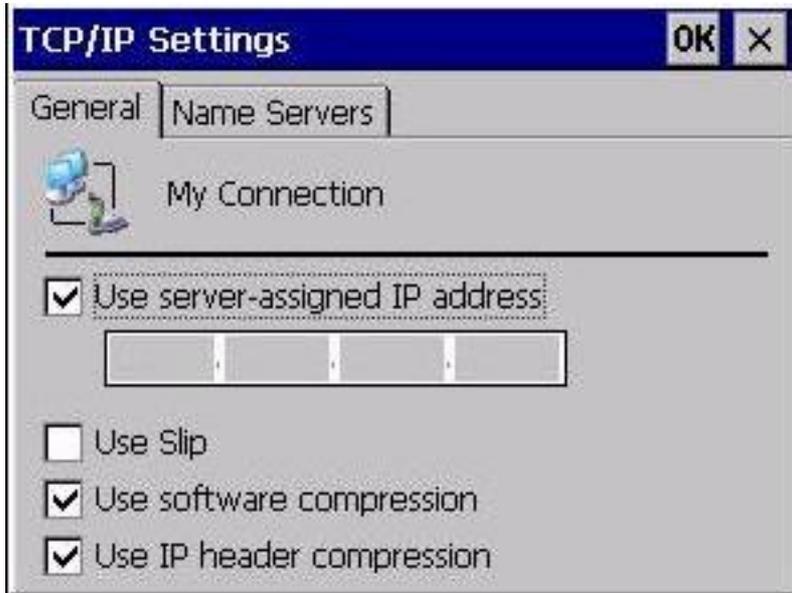
#### Dial-Up Connection – 4



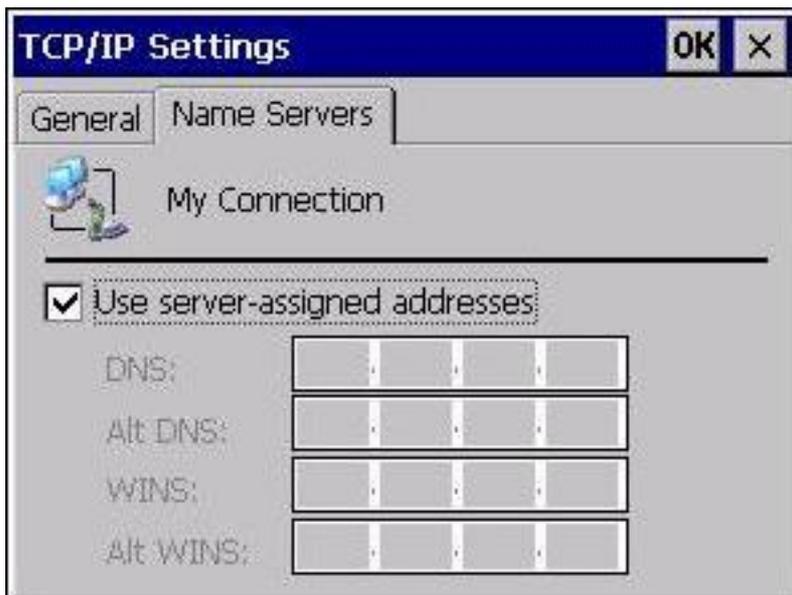
#### Dial-Up Connection –5

**TCP/IP settings :**

Set up your assigned IP address and configuration of your clients.



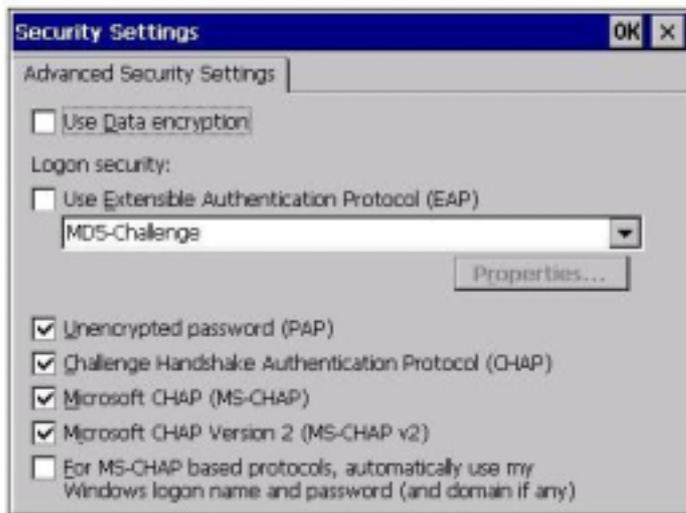
**Dial-Up Connection - 6**



**Dial-Up Connection - 7**

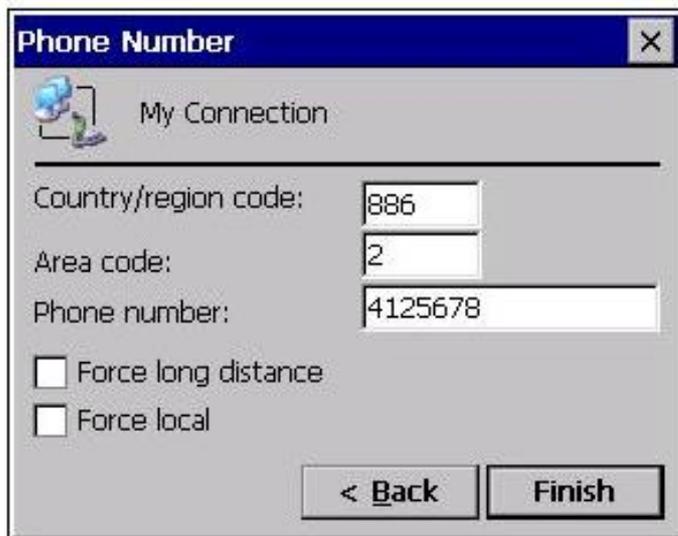
## Security Settings :

Security Properties page enable the administrator or user to hide Configure Tab in Terminal Connection Manager and set up system passwords. These properties provide administrator or users more security level choices to access WinClient.



## Dial-Up Connection - 8

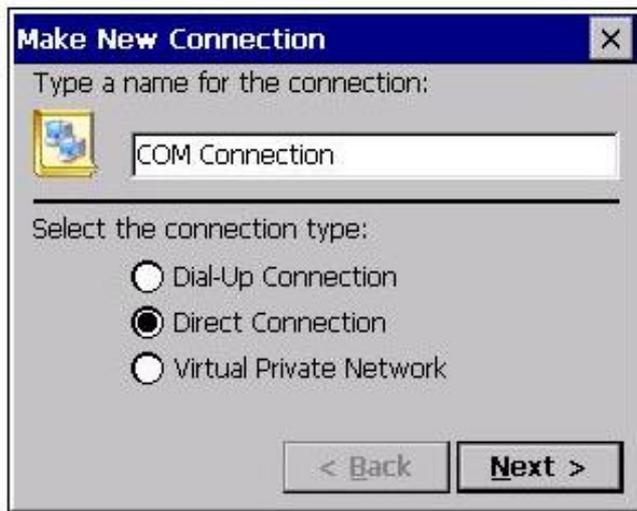
Enter your country, area code and phone number to complete set-up.



## Dial-Up Connection - 9

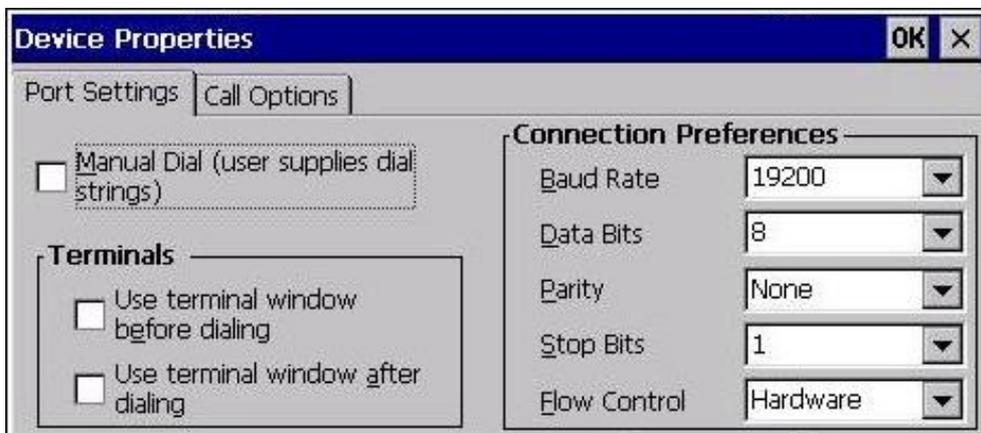
## 2. Direct Connection

The communication between the systems and the clients is connected through serial port then link to destination via LAN connection



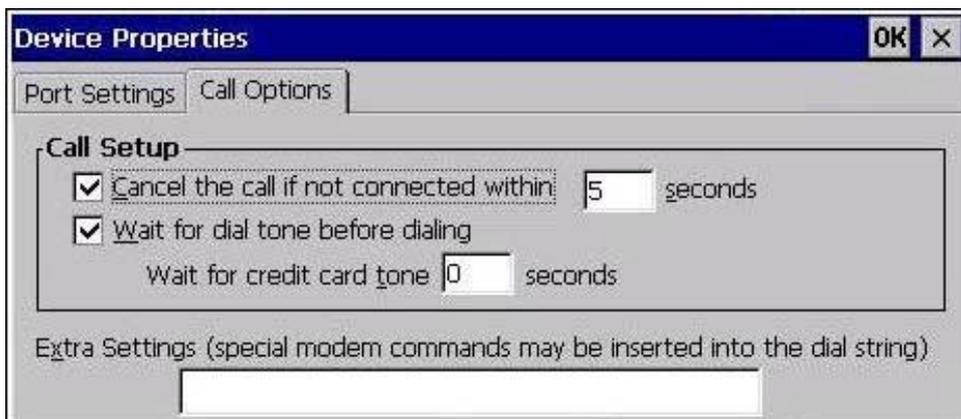
### Direct Connection -1

If you would like to change serial port settings or TCP/IP settings to this RAS connection, click on “Configure or TCP/IP Settings” buttons respectively. And within configure device properties you can adjust the Port Settings and the Call Options to your standard requirement..



### Direct Connection -2

Use the device properties to configure your port settings and call options.



### Direct Connection -3

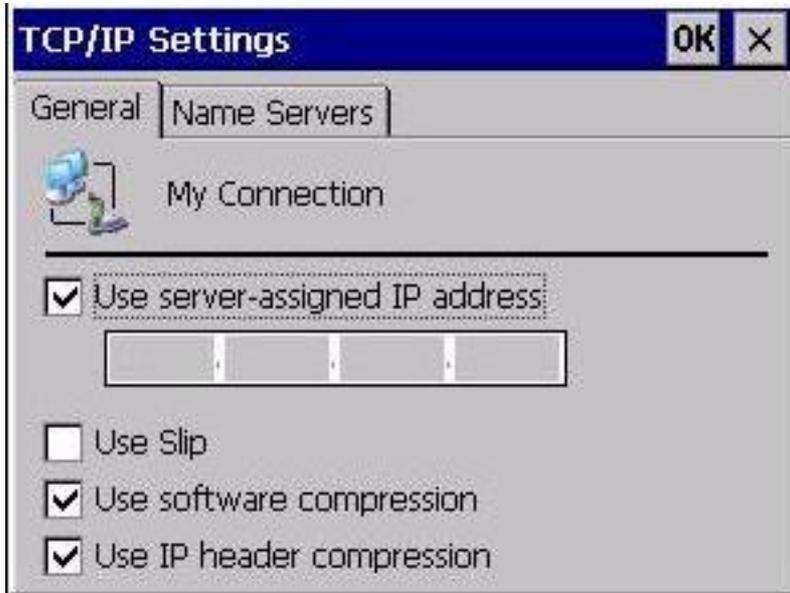
If "Serial Cable on COM1:" is selected, direct serial cable connection is assumed, in this case, telephone number fields will be grayed. Click finish to complete the set-up.



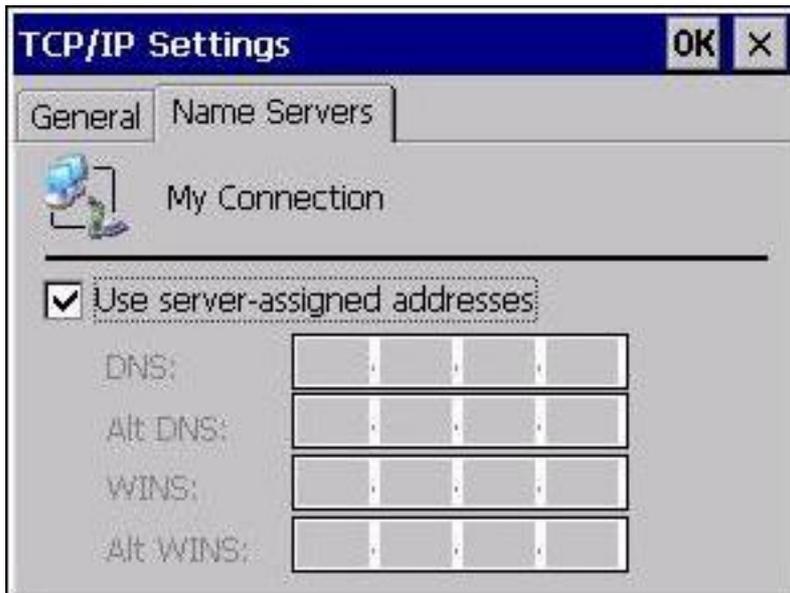
### Direct Connection -4

TCP/IP settings :

Set up your assigned IP address and configuration of your clients.



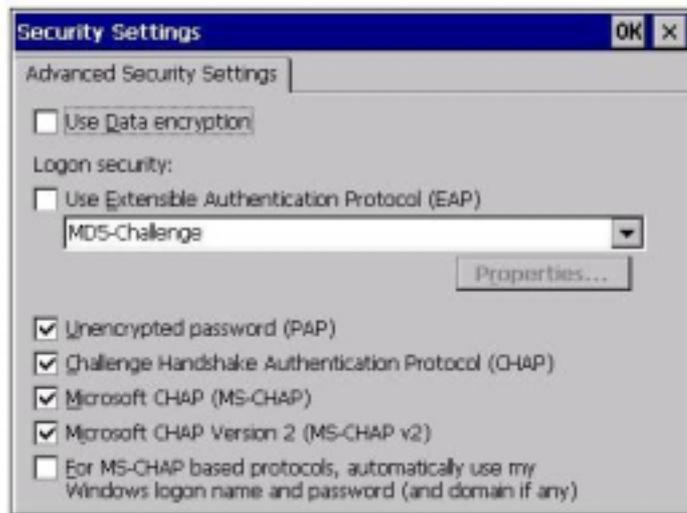
**Direct Connection -5**



**Direct Connection -6**

## Security Settings :

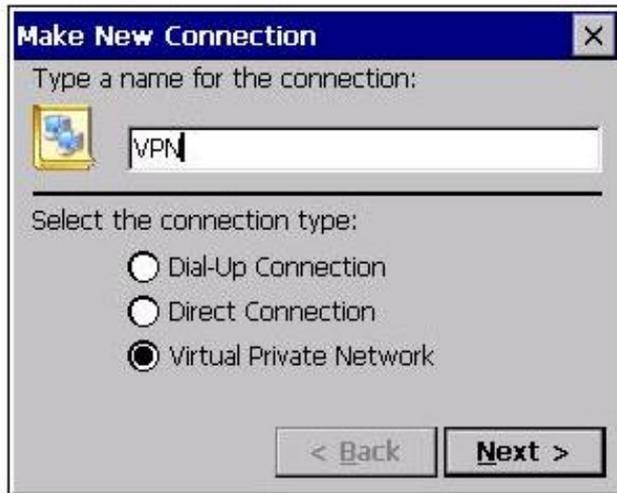
Security Properties page enable the administrator or user to hide Configure Tab in Terminal Connection Manager and set up system passwords. These properties provide administrator or users more security level choices to access WinClient.



## Direct Connection -7

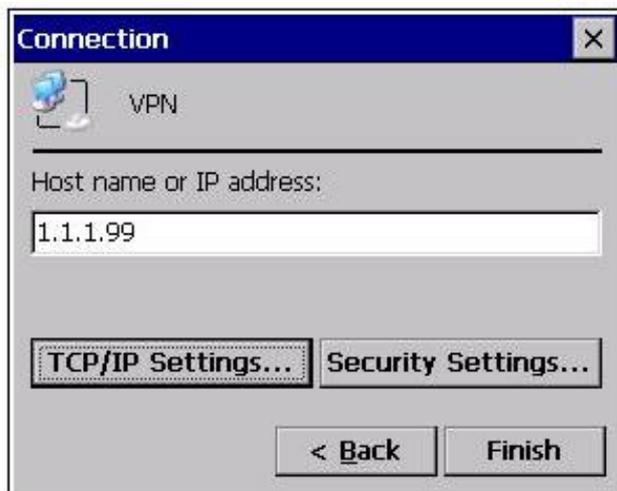
### 3.Virtual Private Network Connection

The communication is connected through an established virtual channel between the system and the client itself in the entire network. Data will be encrypted when being transform between the two.



#### VPN Connection –1

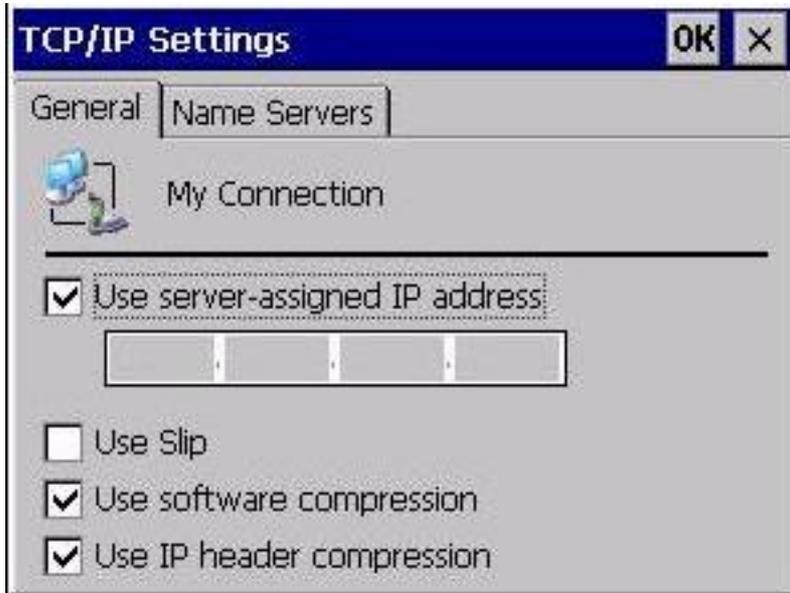
Select your Host name and IP address.



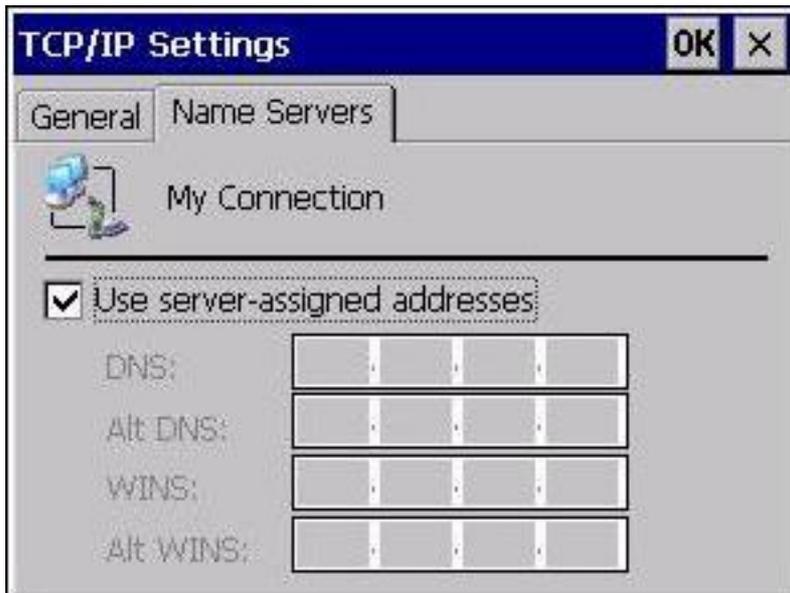
#### VPN Connection –2

TCP/IP settings :

Set up your assigned IP address and configuration of your clients.



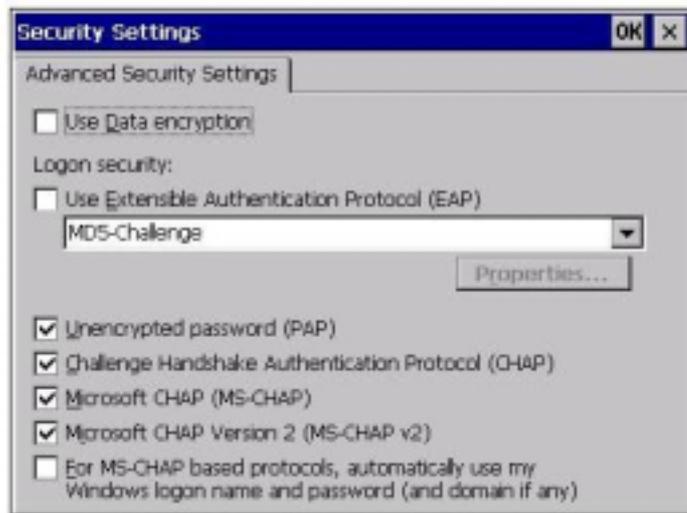
**VPN Connection –3**



**VPN Connection –4**

## Security Settings :

Security Properties page enable the administrator or user to hide Configure Tab in Terminal Connection Manager and set up system passwords. These properties provide administrator or users more security level choices to access WinClient.

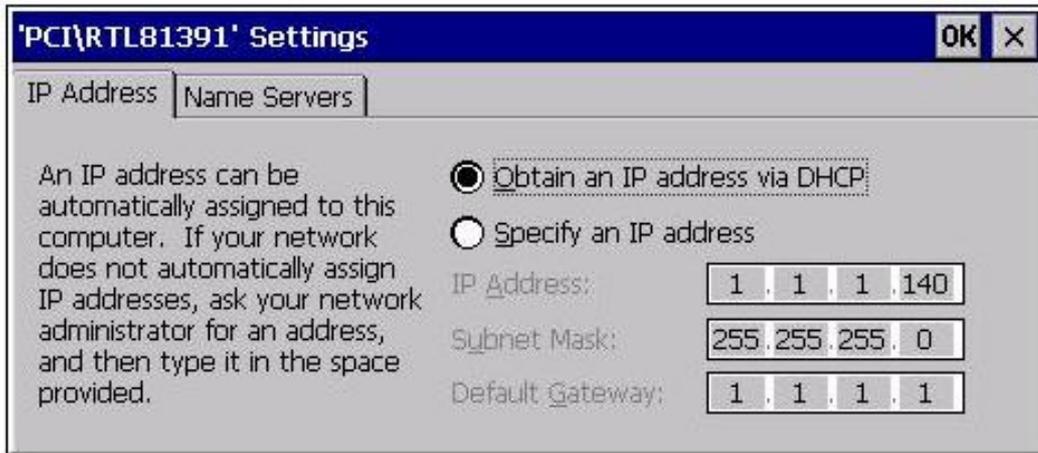


## VPN Connection –5

## Network Properties

Network Properties page allows you to configure your network. The functions of control buttons are as following:

### IP Address

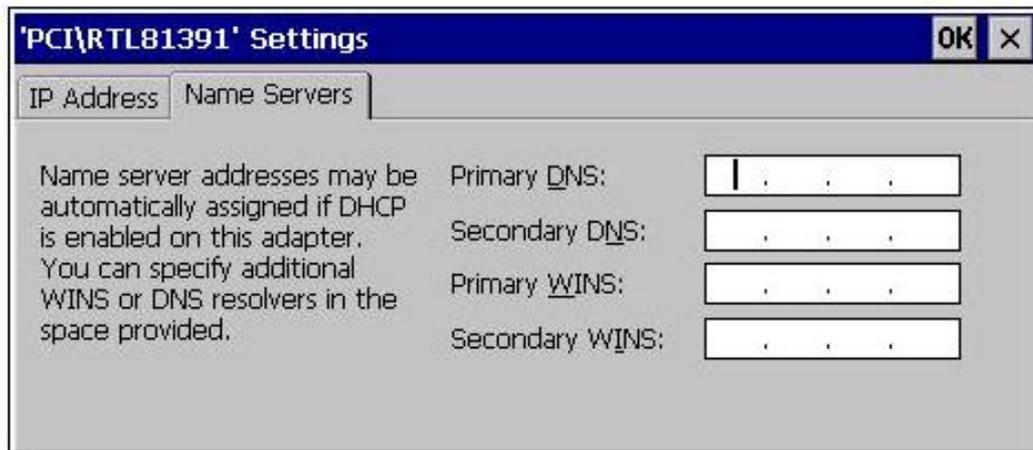


### Network Properties –1

**Obtain an Address from a DHCP server:** Using this control button to gather IP address and other settings from a DHCP server automatically.

**Specify an IP Address:** Using this control button to enter a specific IP address. Fill the network information in the fields, if you don't know the information, ask your network administrators.

**Name Servers:** Using this control button to configure Name Servers settings. If “**Name Servers**” control button is pressed, Name Servers settings dialog box displays. You can set primary and secondary IP addresses for DNS server and primary and secondary IP addresses for WINS server.

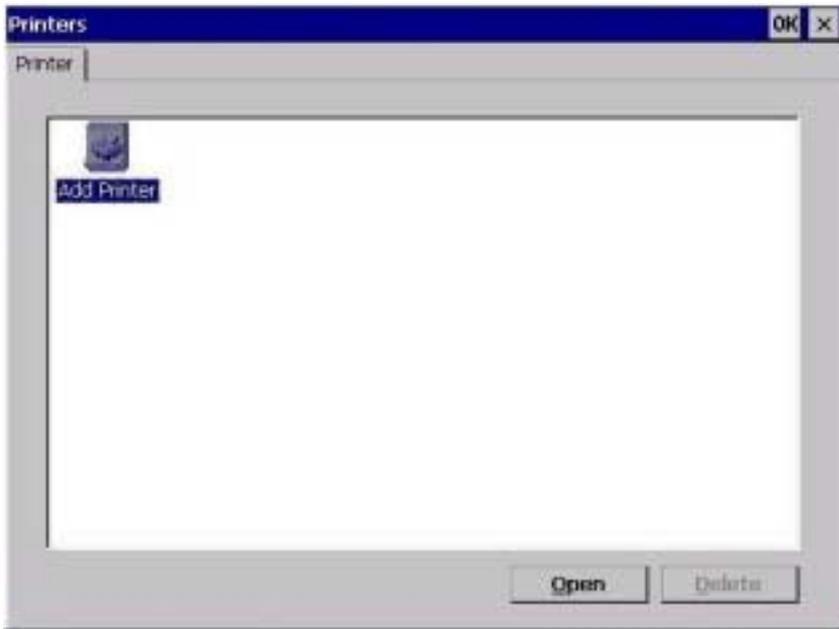


## Network Properties –2

Click “**OK**” button to save changes and quit the Network Properties page. Click “**Cancel**” button to quit the Network Properties without save changes.

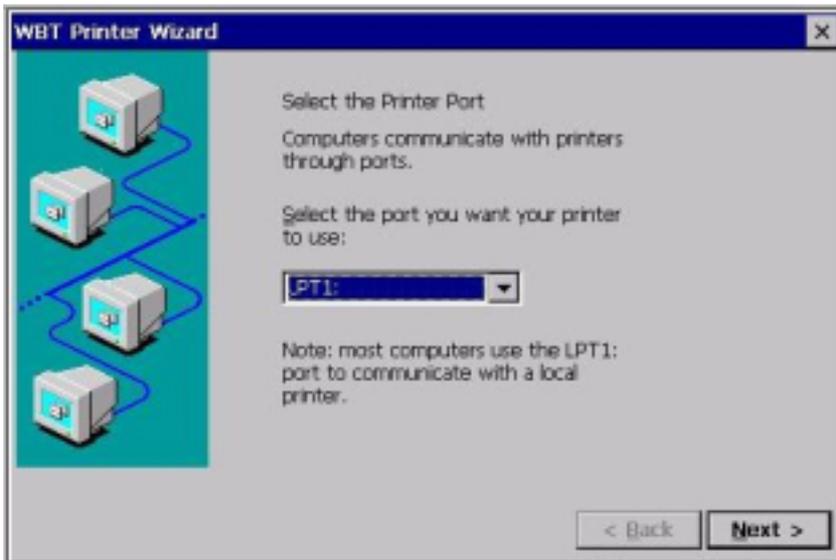
## Printers Properties

Printer Properties support the local printer installation and network printer mapping. Choose the local printer port and then press add printer will enable users to choose all kind of printer driver.



**Printer Properties**

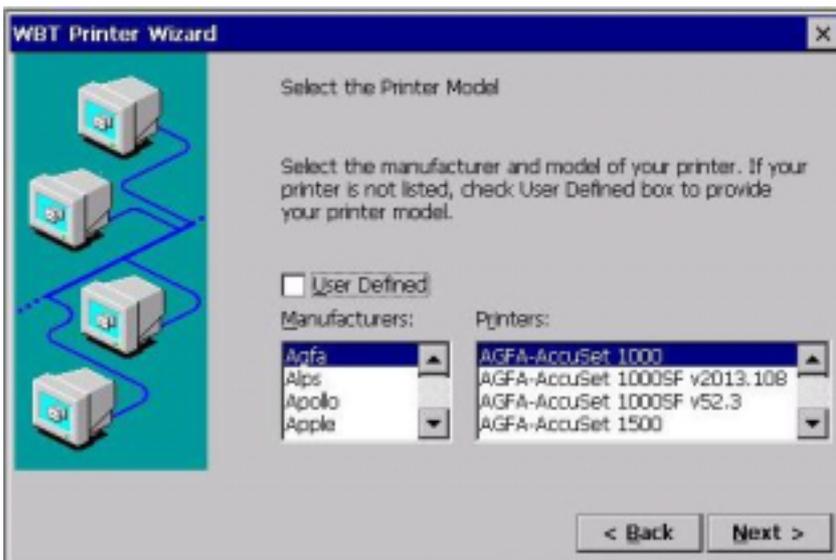
Select the printer port that you wish your printer to use.



**Select the printer port**

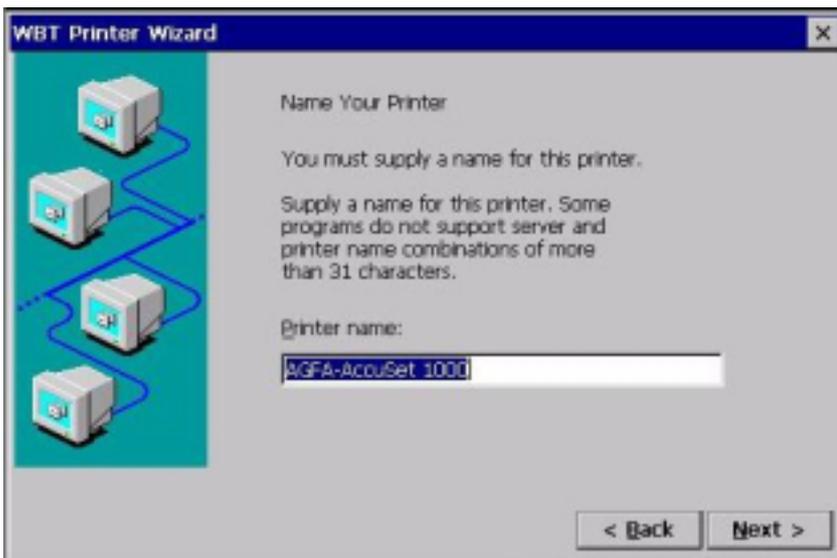
Network Printer Mapping

Select your printer type, then press the next button to make it as your default printer.



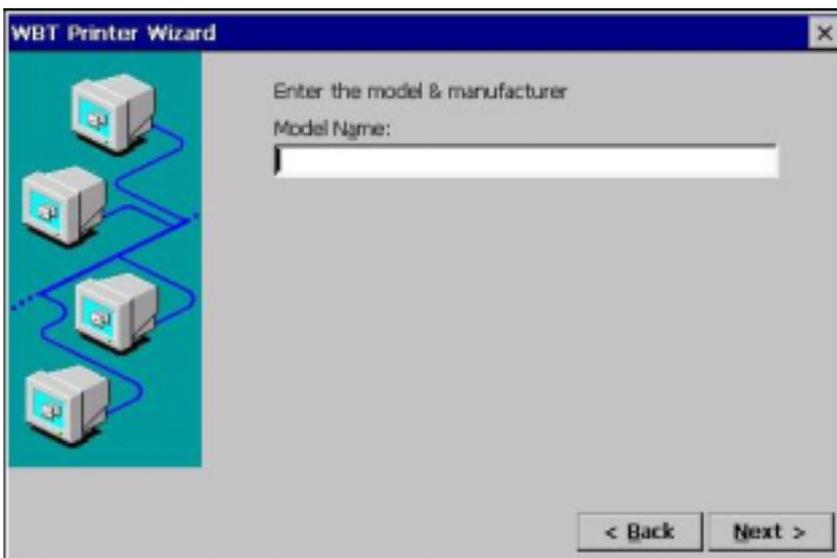
**Select Printer Model**

Create a user name for your printer



### **Naming Your Printer**

If you are unable to locate a printer type from the list provided, use the Defined box to make a printer type of your own. Enter the model name and the manufacturer of your selected printer, then press the next button.



### **Make a Printer Model -1**

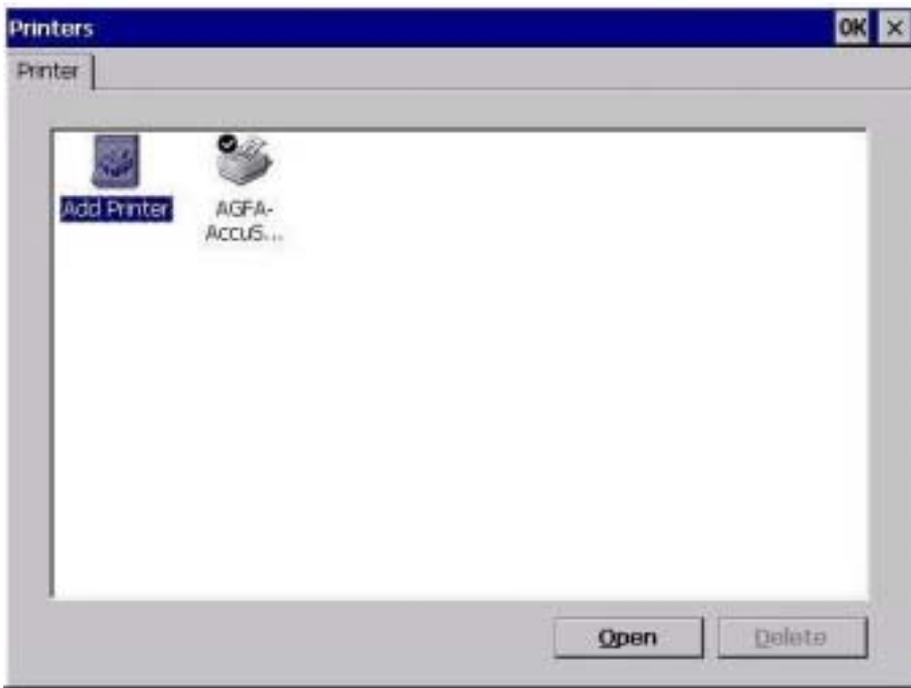
The system will provide you an auto message of whether to configure another printer.



**Make an Printer Model -2**



**Print Setup Finish -1**

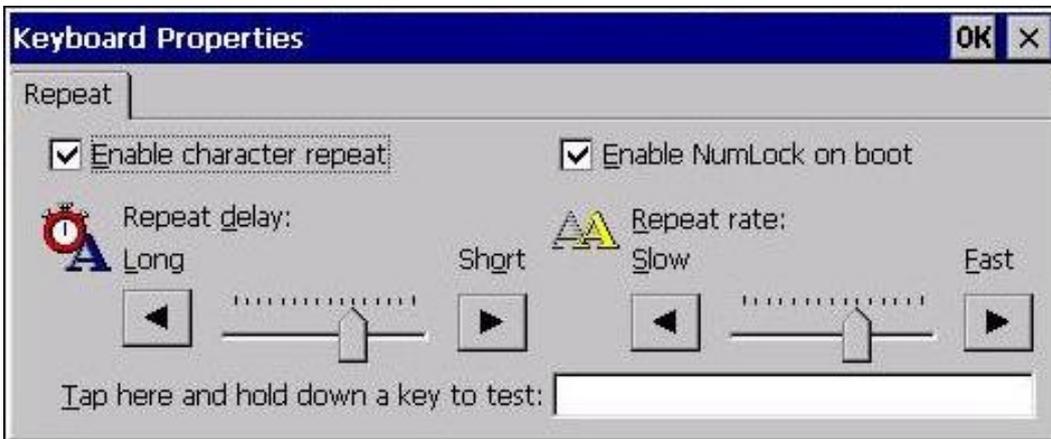


### Print Setup Finish -2

You have now successfully configured your own printer.

### Keyboard Properties

Keyboard Properties page allows you to set up the configuration of your keyboard.

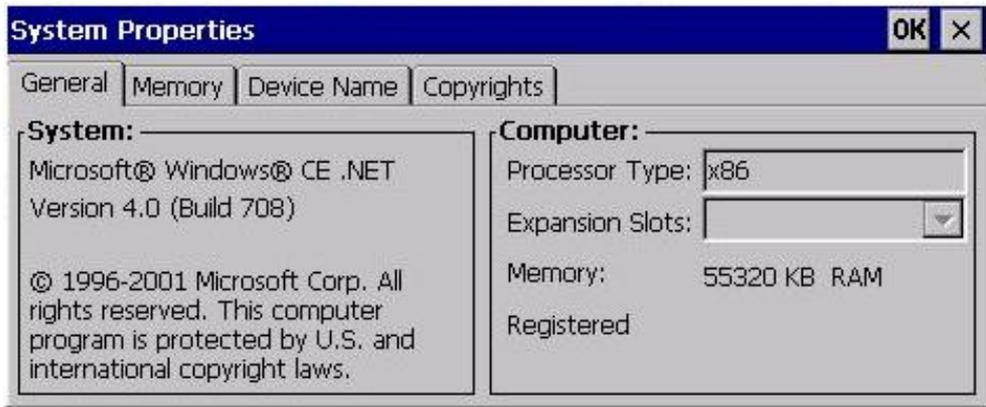


### Keyboard Properties

## System Properties

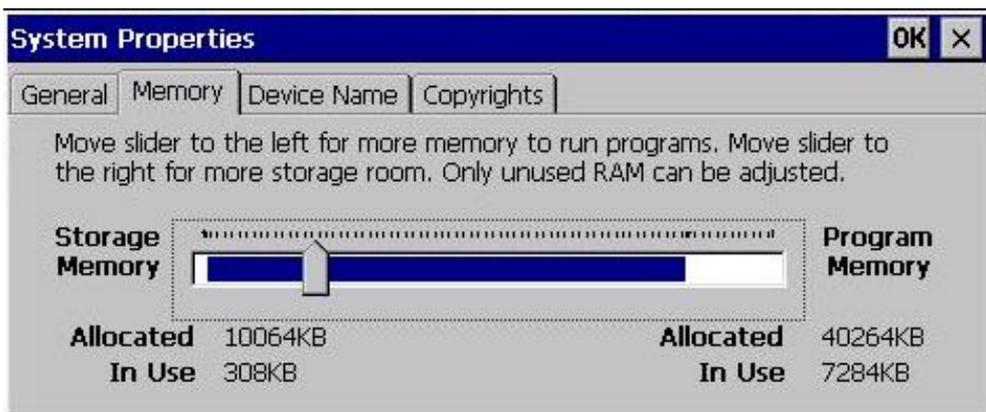
System Properties page provide you the general information of the client. Those information includes:

General :



### general information

Memory



## Device Name



## Device Name

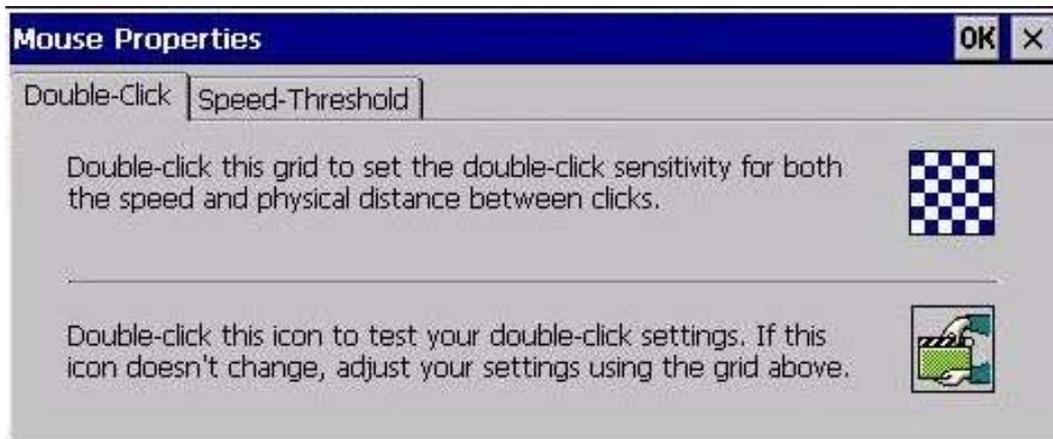
## Copyrights



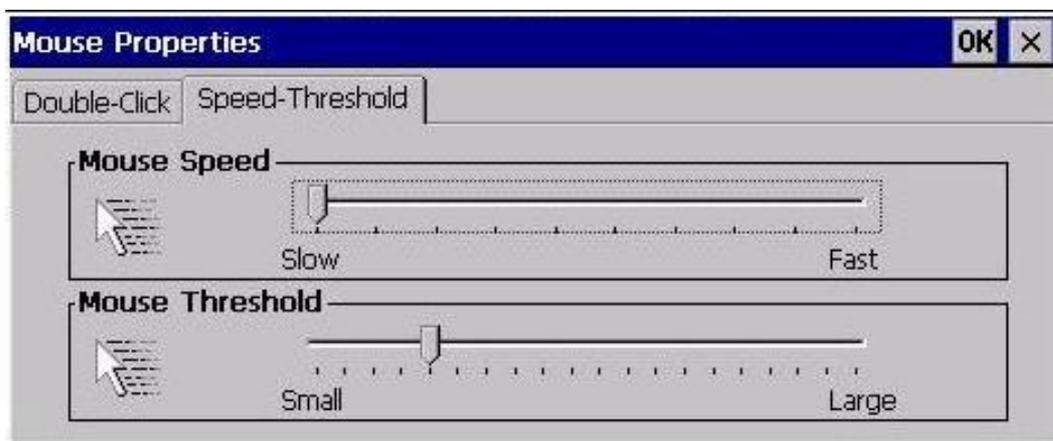
## Copyrights

## Mouse Properties

Mouse Properties page allows you to set up the configuration of your keyboard.



Mouse Properties -1



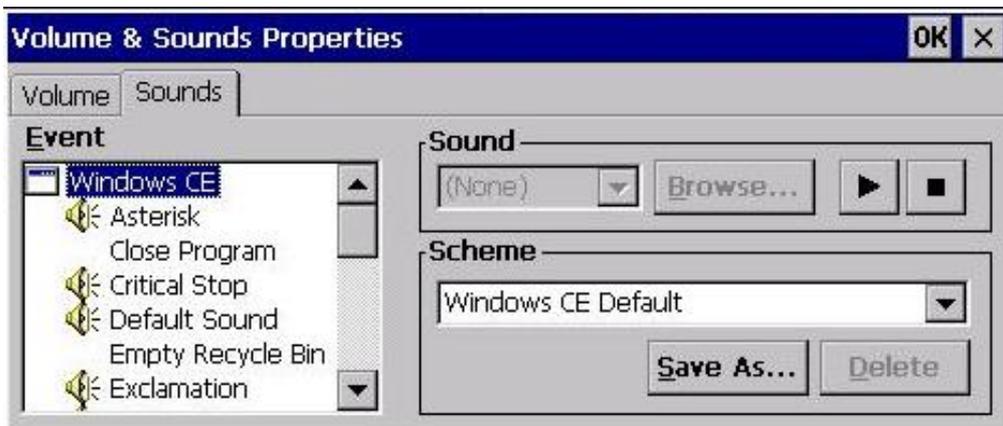
Mouse Properties -2

## Volume and Sounds Properties

Volume and sound properties page allows you to make an adjustment on your client's sound qualities.



Volume and sound properties -1



Volume and sound properties -2

## Date and Time Properties

This section is specially design for different time zone purpose, as one may have such need for the time requirement. It will enable user to set up the time for the local requirement.



Date and Time Properties

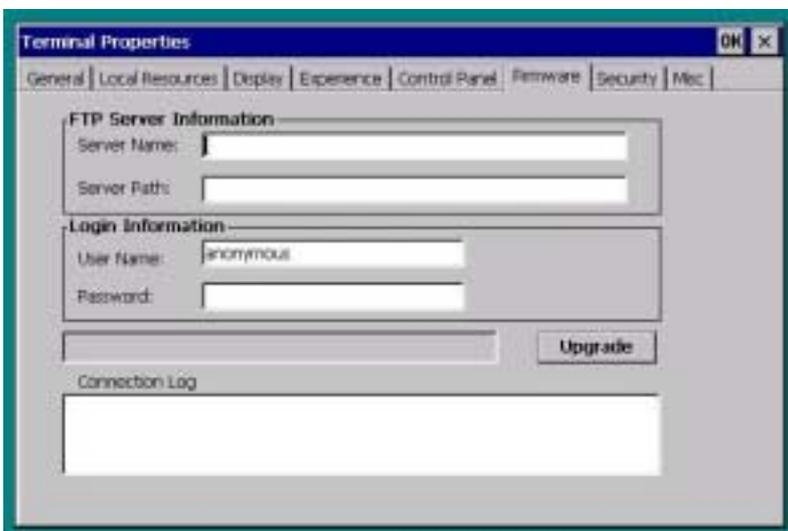
## Firmware Properties

Firmware Properties page allows you to upgrade firmware using a FTP server, in which firmware is downloaded to WinClient from your FTP server. You must fill out the FTP server information and Login information in the Firmware Properties page in order to start downloading the firmware image.

**Notice:** The upgrade process cannot be cancelled once you have started upgrading. WinClient must be restarted for changes to take effect. The created connection items remain no change and Terminal Properties are reset to the factory defaults settings during the upgrade process.

Following are the steps for upgrading the firmware :

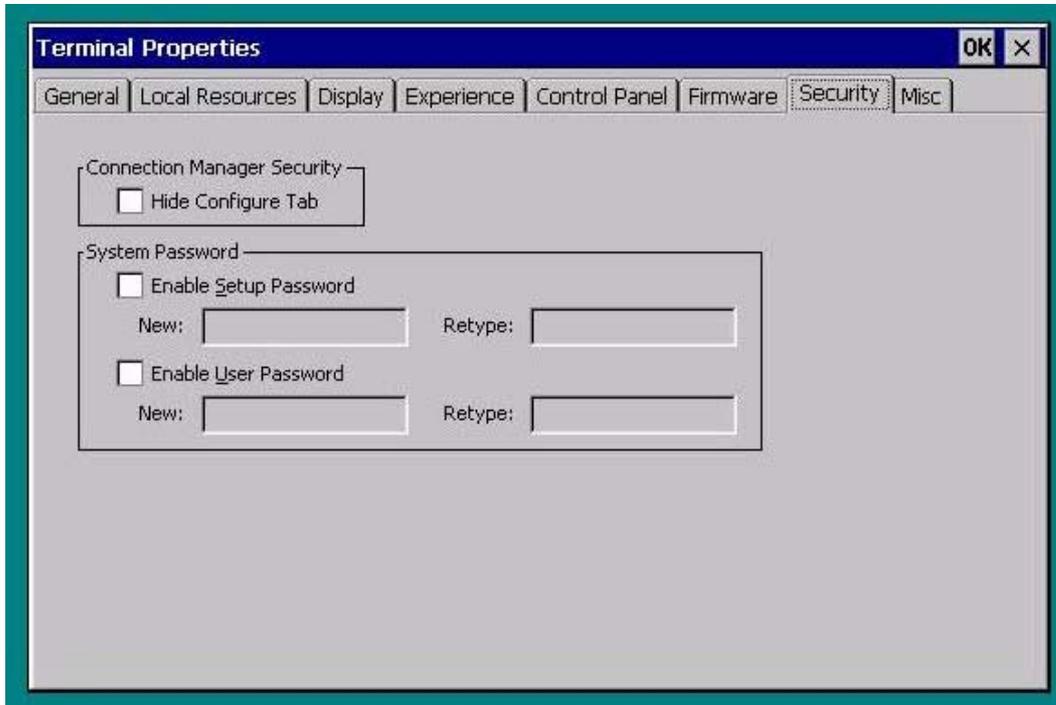
1. Click “**Upgrade**” button to start firmware downloading. After image download finished, a dialog will popup for you to confirm update.
2. Fill in the server name and the server path that you are upgrading to and click the upgrade icon.
3. To confirm upgrade firmware click “**Yes**” button on the dialog box or Click “**No**” button to cancel upgrading.
4. Upgrade process completed.
5. Click “**Reboot**” button to restart the WinClient



**Firmware Properties**

## Security Properties

Security Properties page enable the administrator or user to hide Configure Tab in Terminal Connection Manager and set up system passwords. These properties provide administrator or users more security level choices to access WinClient



### Security Properties

**Hide Configure Tab:** Once it was selected, Configure Tab in the Terminal Connection Manager will be hidden. User can not Add/Edit/Delete connections.

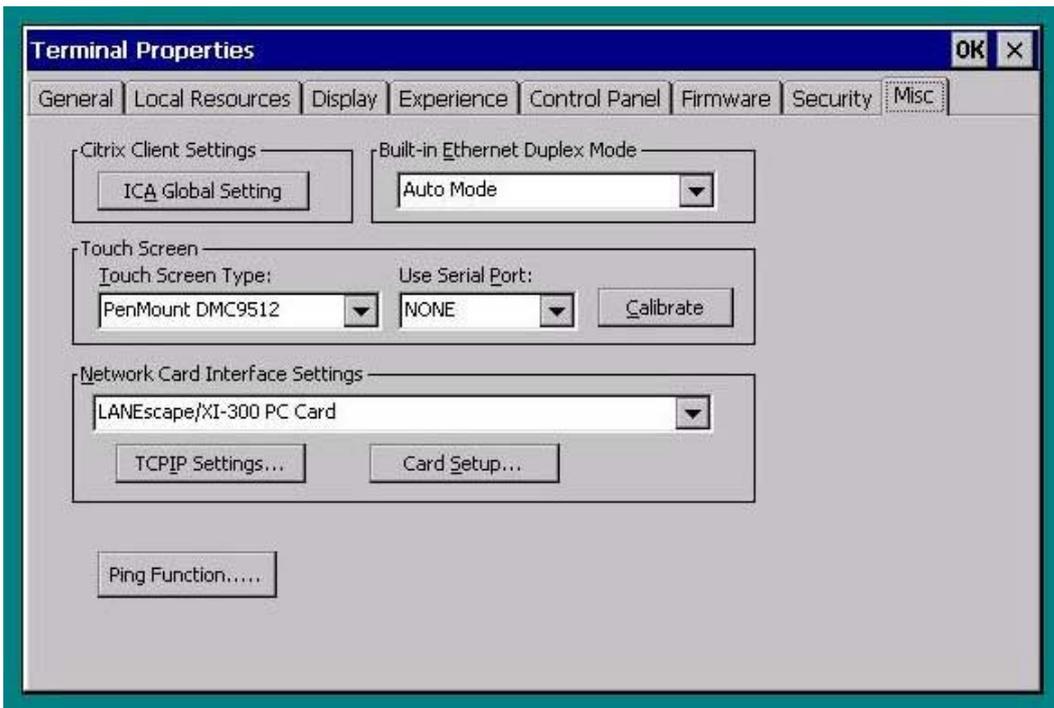
**System Password:** There are two types of password protection supported:

1. **Setup Password** is provided as a protection for authorized user to *setup* WinClient Terminal Properties. Once set, a Setup Password input dialog will be prompted while user presses F2 at Terminal Connection Manager program.
2. **User Password** is provided as a protection for authorized user to *use* this WinClient device. Once set, a User Password input dialog will be prompted at the system boot.

**WARNING:** Please be aware that once either user or setup password is set, and in case you forget password, there is no way to recover it without the original password

except upgrading firmware image from boot ROM, please contact with your local distributor in case you encounter this problem.

## Miscellaneous Properties

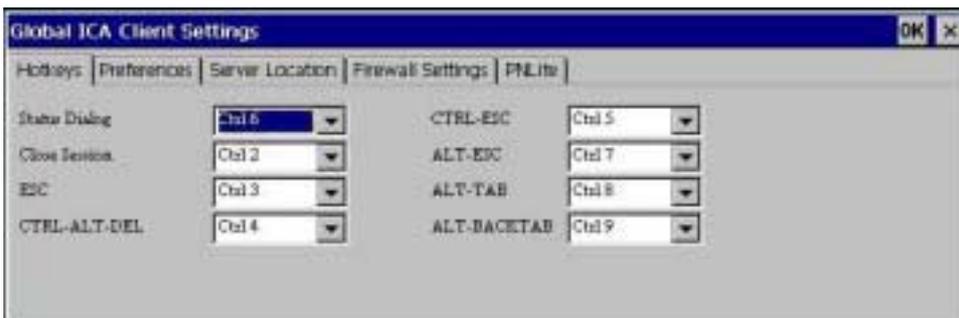


## Miscellaneous Properties

### ICA Global Setting:

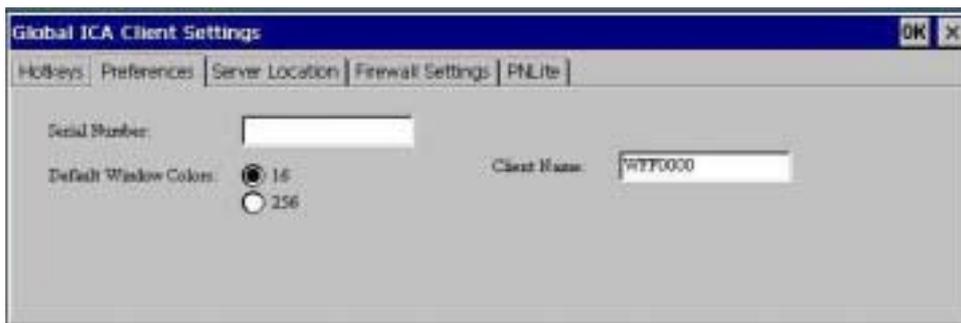
Note: Refer to Citrix ICA client for Windows CE Windows-Based Terminal User Guide to set up ICA Global Settings. Under ICA Global Setting, users can adjust the following functions according to their needs.

### HotKeys



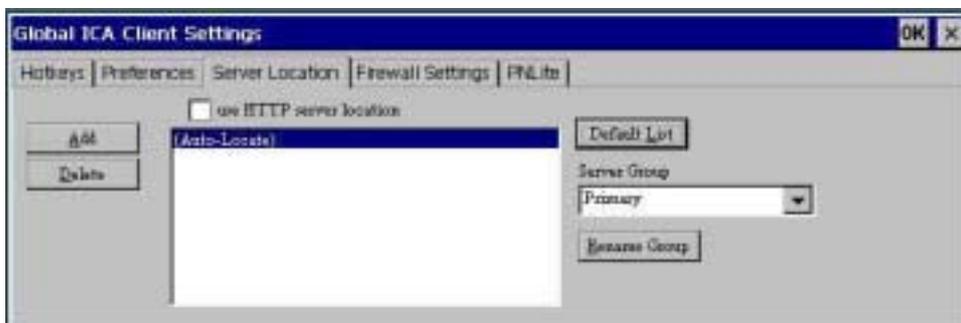
## ICA Globe Setting –1

## Preferences



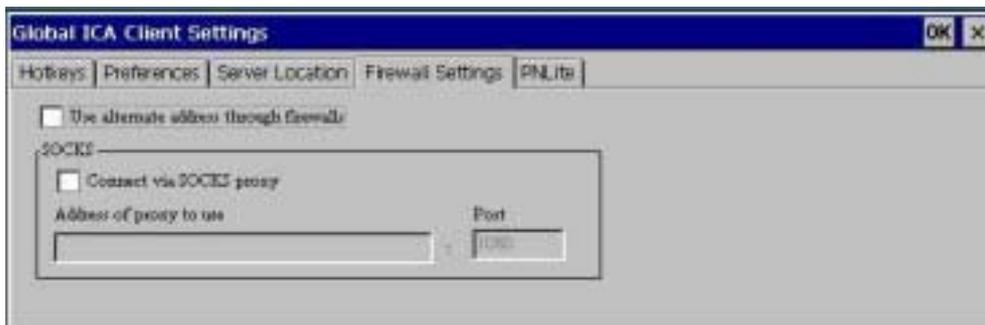
### ICA Globe Setting –2

## Server Location



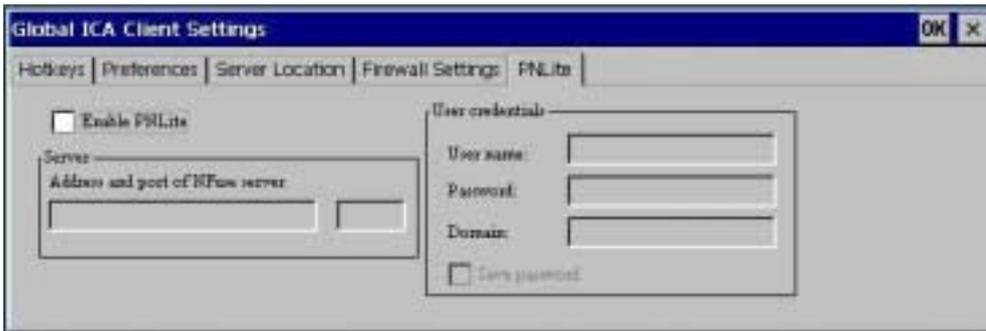
### ICA Globe Setting –3

## Firewall Settings



### ICA Globe Setting –4

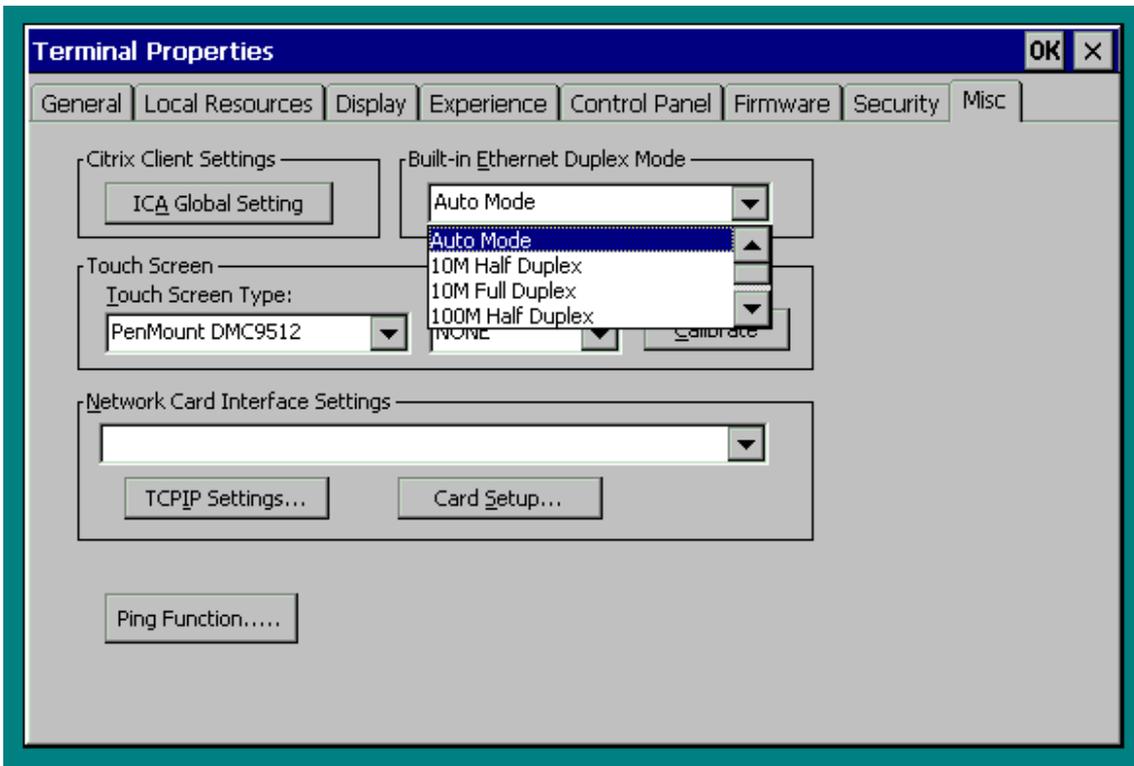
## PNLite



**ICA Globe Setting –5**

### **Built-in Ethernet Duplex Mode:**

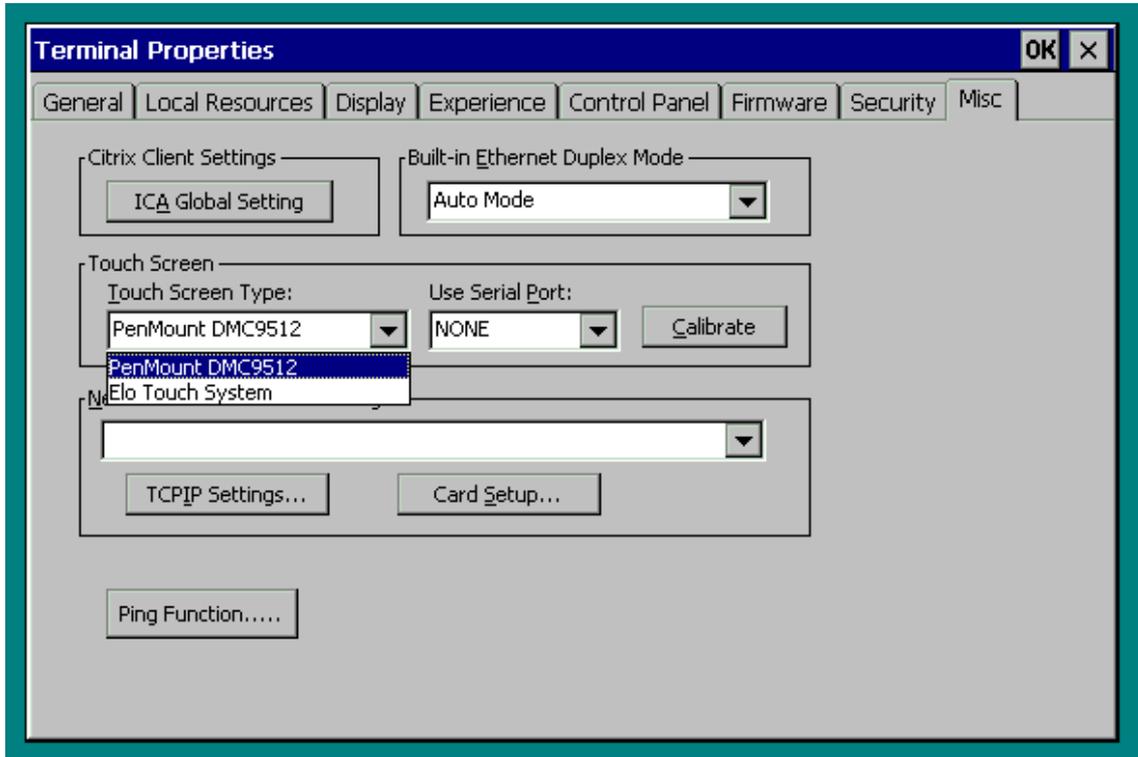
Select the Ethernet duplex mode for built-in fast Ethernet controller. Normally you place this setting at Auto Mode to auto sense the duplex mode of the network.



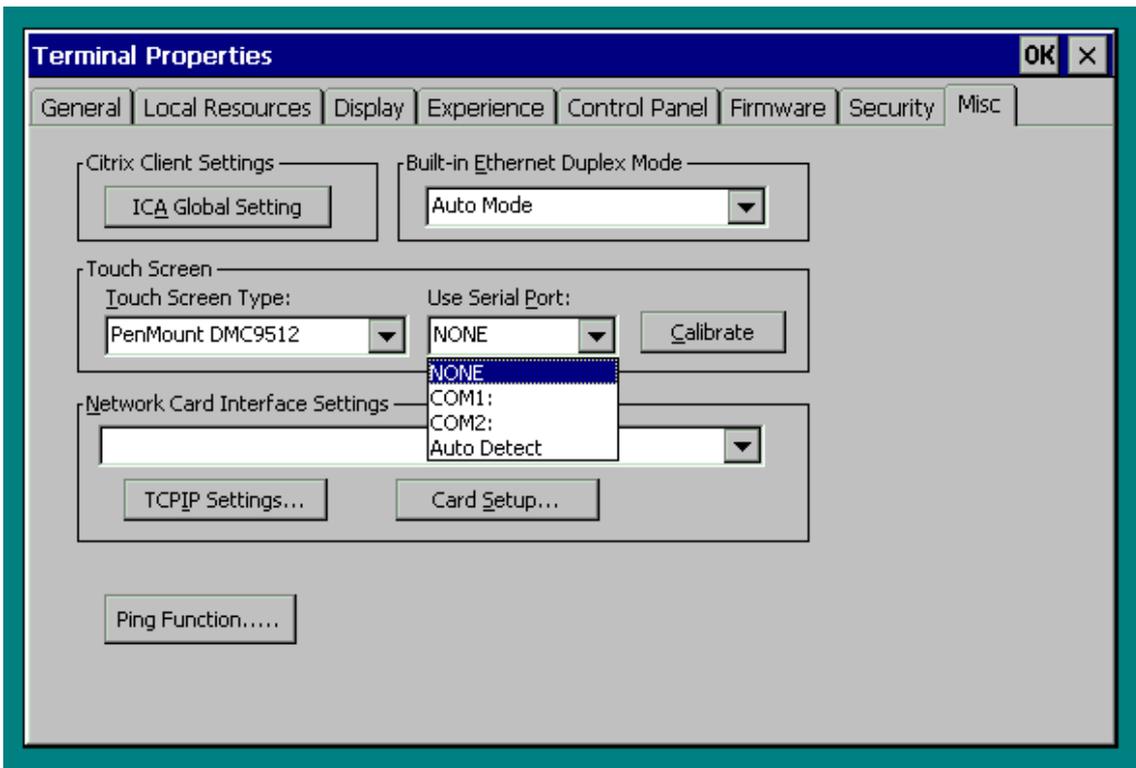
**Select the Ethernet duplex mode**

**Touch Screen:**

Select the input port for the PenMount DMC9512 controller compatible touch screen panel.

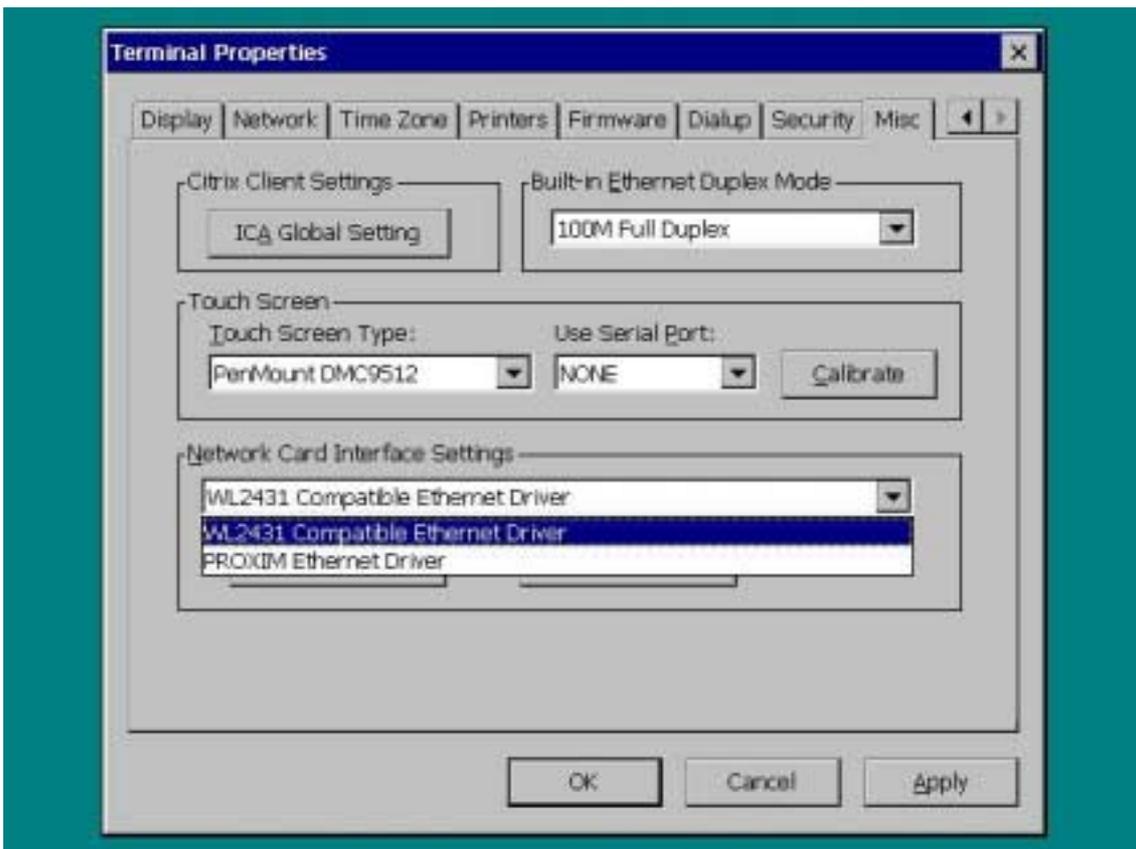


**Touch Screen –1**



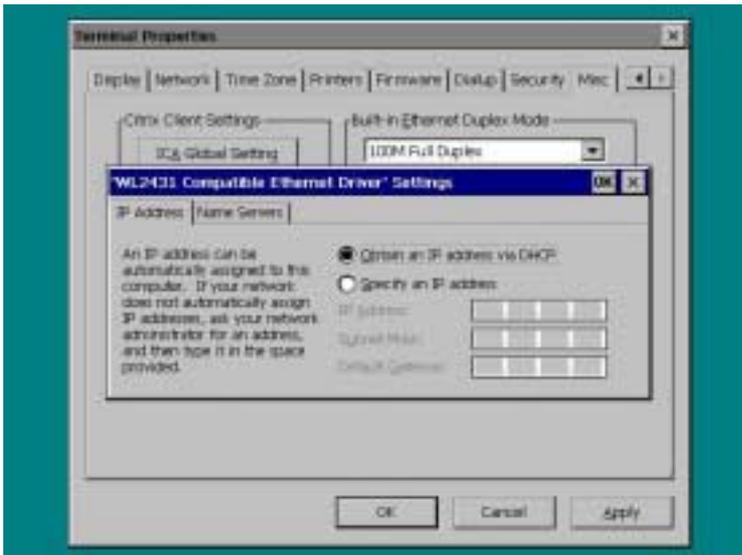
**Touch Screen –2**

## Network Card Interface Settings.

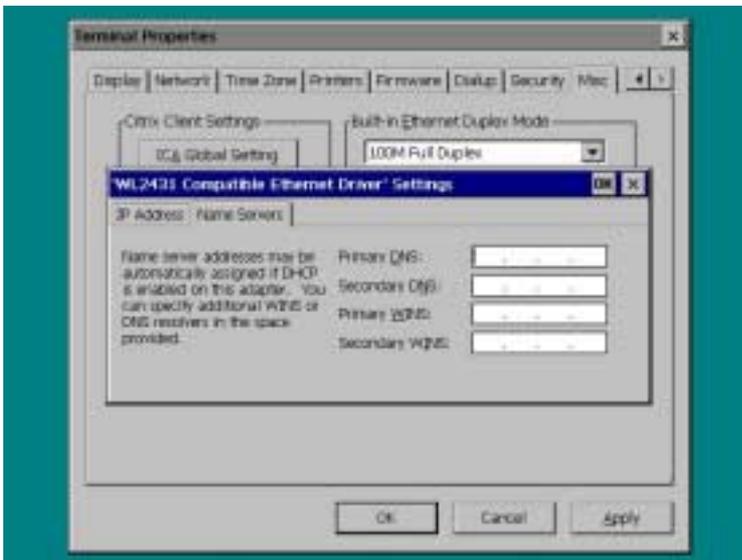


Network Card Interface Settings -1

Set your IP Address and the Name Servers

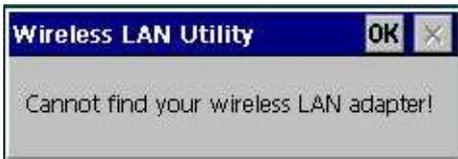


Network Card Interface Settings -2



Network Card Interface Settings -3

Click on the Card Setup icon to set up the wireless LAN card, however, if unable to locate the card, the system will provide you with the following message.

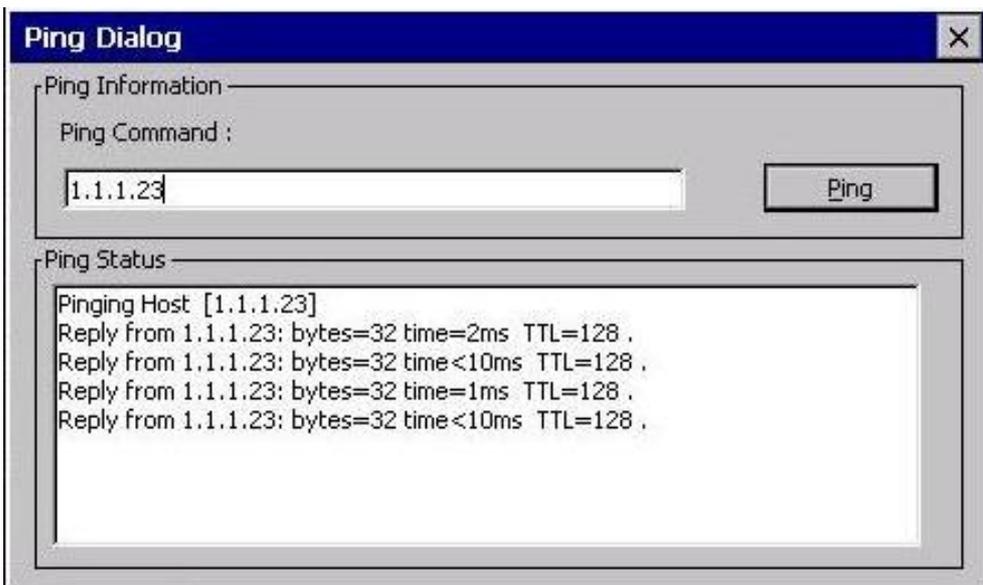


## Ping Function

The `ping` dialog box executes the `ping` diagnostic utility. Ping is a diagnostic tool that send echo requests until interrupted by clicking on the **Exit** button. The `ping` utility sends one echo request per second and calculates round trip times and packet loss statistics, and displays a brief summary on completion.

The `ping` utility can be used to:

- Determine the status of the network and various foreign hosts.
- Track and isolate hardware and software problems.
- Test, measure, and manage networks.
- Determine the IP address of a host if only the hostname is known.



## Ping Function

## **Slave Smart Card for WinClient**

This chapter describes how to use the Smart Card on WinClients which support smart card features. Smart card reader has been built onto Thin Client series and with its convenient function of “Mobile Connections” and advanced security features, users are able to operate Thin Client anywhere by inserting the smart card which is stored with their own connections. Such function is specially designed for users who have to share thin-client with others.

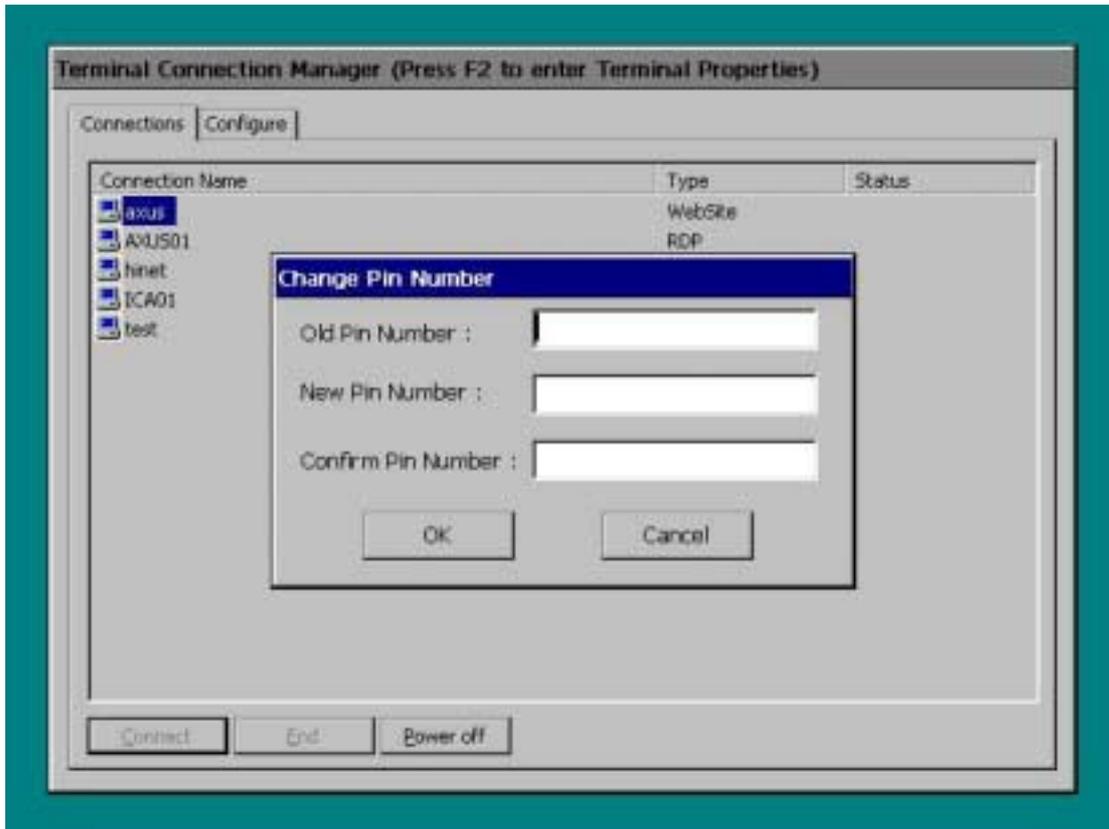
### **Smart Card Features:**

- PIN number is encrypted to the smart card based on the **DES** (Data Encryption Standard).
- The smart card follows ISO-7816-4 standard
- Flexible Mobile connections
- More Security & More Convenient

## How to Use the Slave Smart Card on Thin Client

### Login with NEW Slave Smart Card

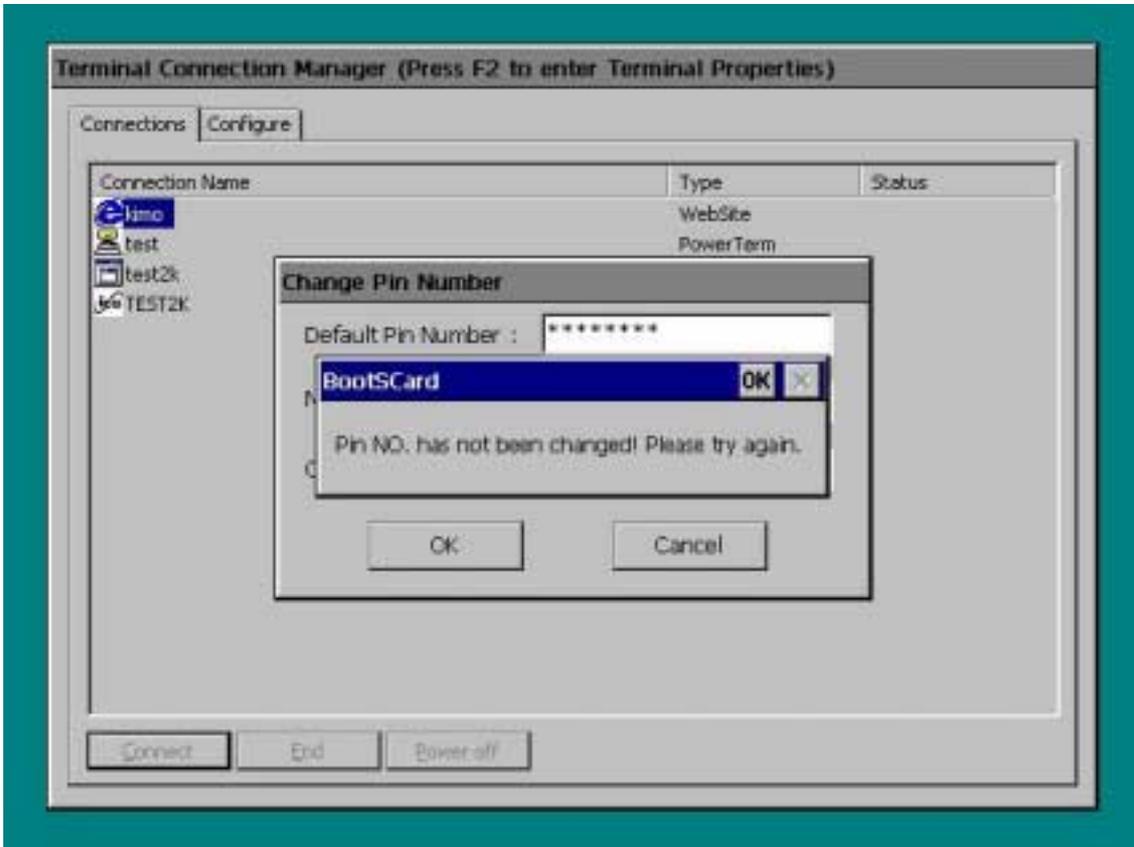
User need to change the password when login Thin Client with the **NEW** smart card. Password can't exceed 8 characters and normally the default password is "11111111".



### Login with NEW smart card

## Change to a New Pin Number

Type the new digit number that you wish to change to on the New Pin Number column, then re-type it to verify on the Confirm Pin Number column. They both must be identical or the system will provide you with the following message.

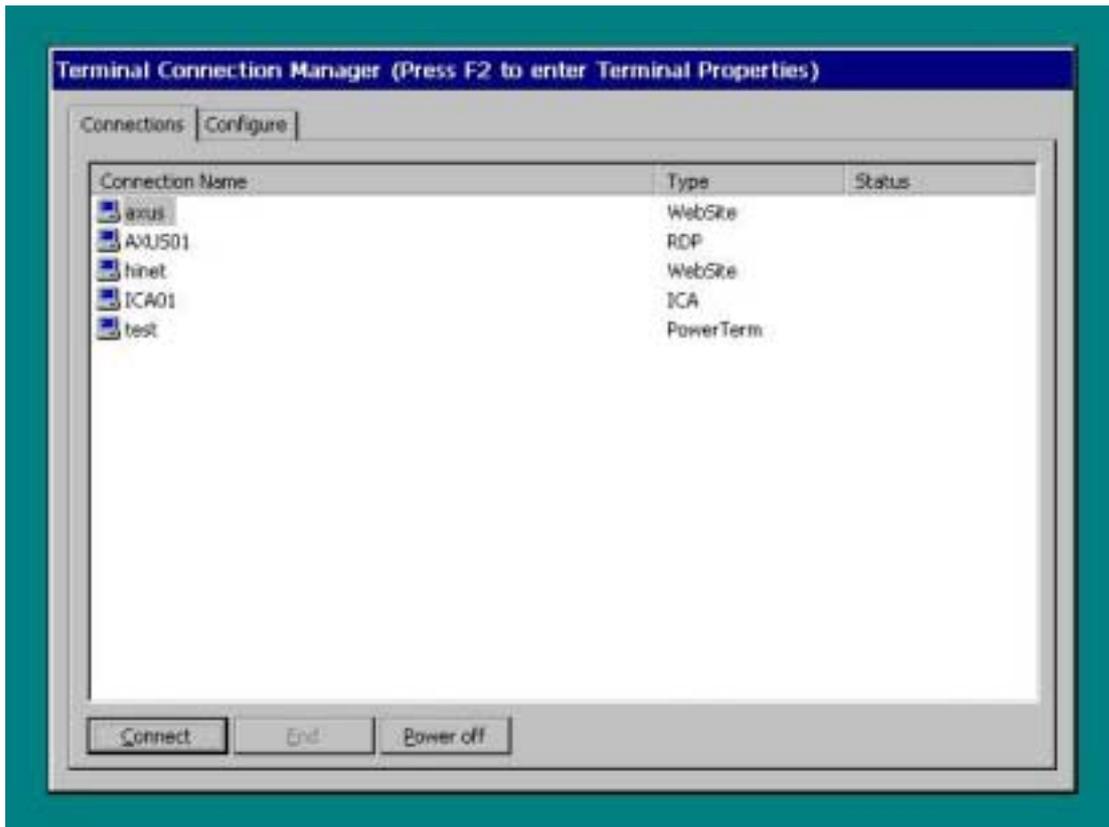


## Backup the original connections to Disk on Chip

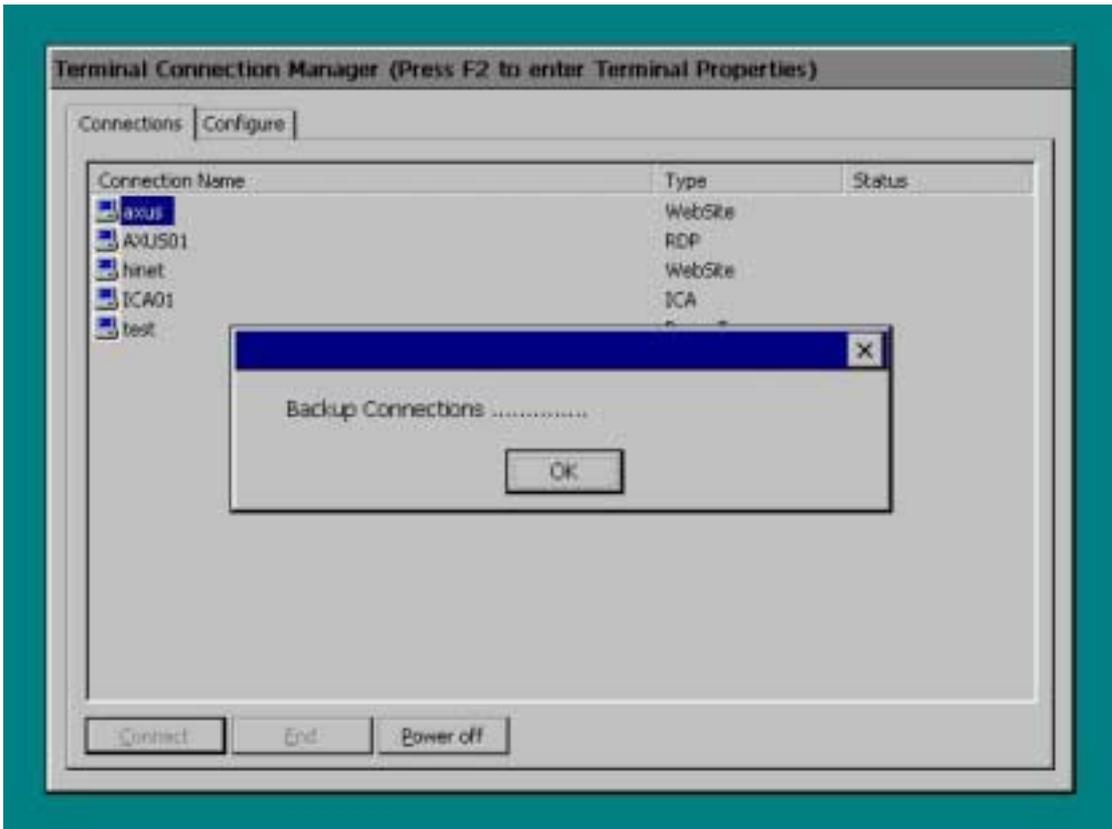
The different backup procedures will be processed when you insert the smart card to Thin Client.

### Insert the smart card to Thin Client on POWER-ON status.

- 1: Please close all running sessions on Thin Client before the smart card was inserted .
- 2: The color of the window of **Connection Manager** will turn gray. Then a message of "backup connections...." will popup. This means Thin Client is making a backup procedures of the original connections to DOC (Disk on Chip) automatically.

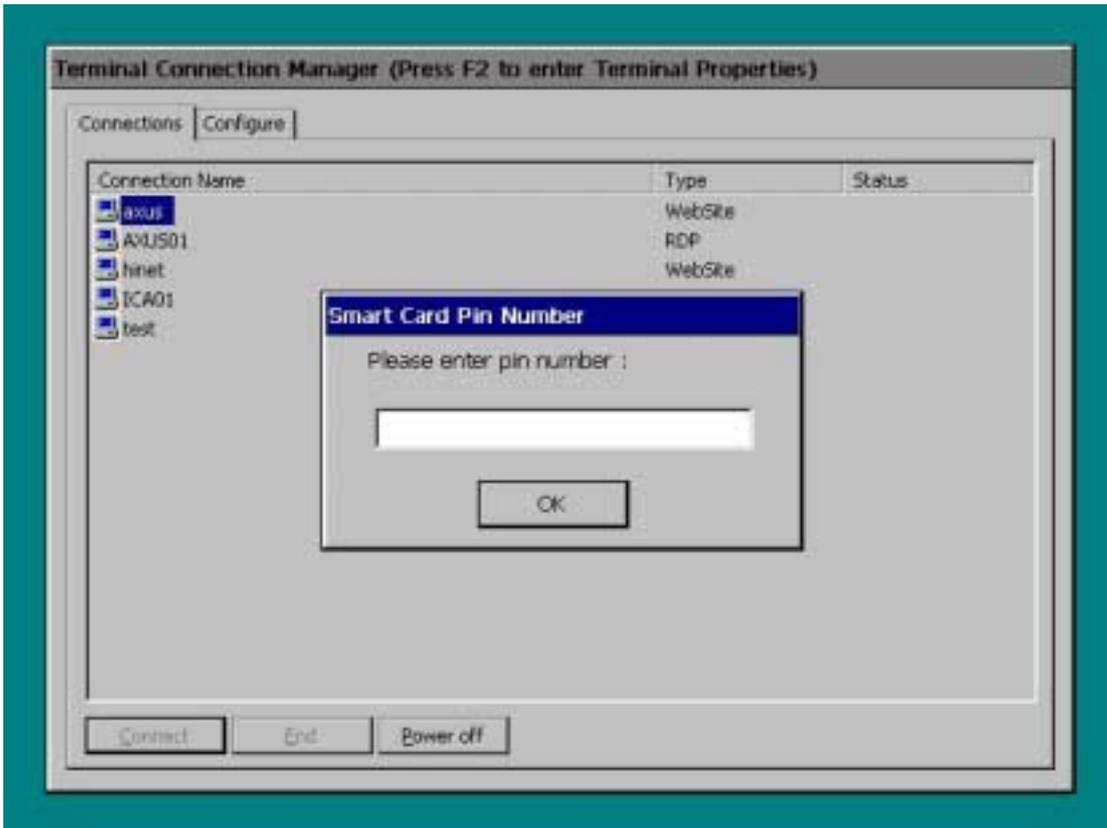


**Original Connections**



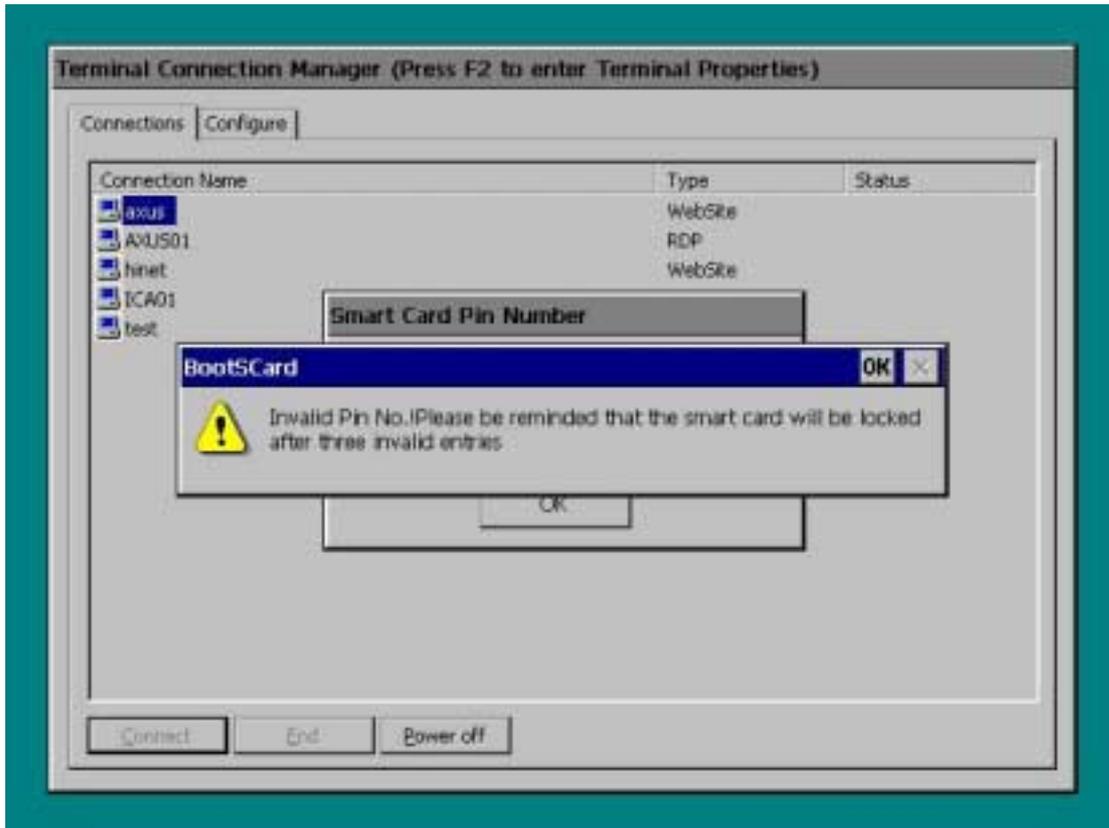
**Backup Original Connections**

3: PIN Number authentication dialog box will popup after the original connections backup procedures are completed. Enter the default PIN Number to login the system.



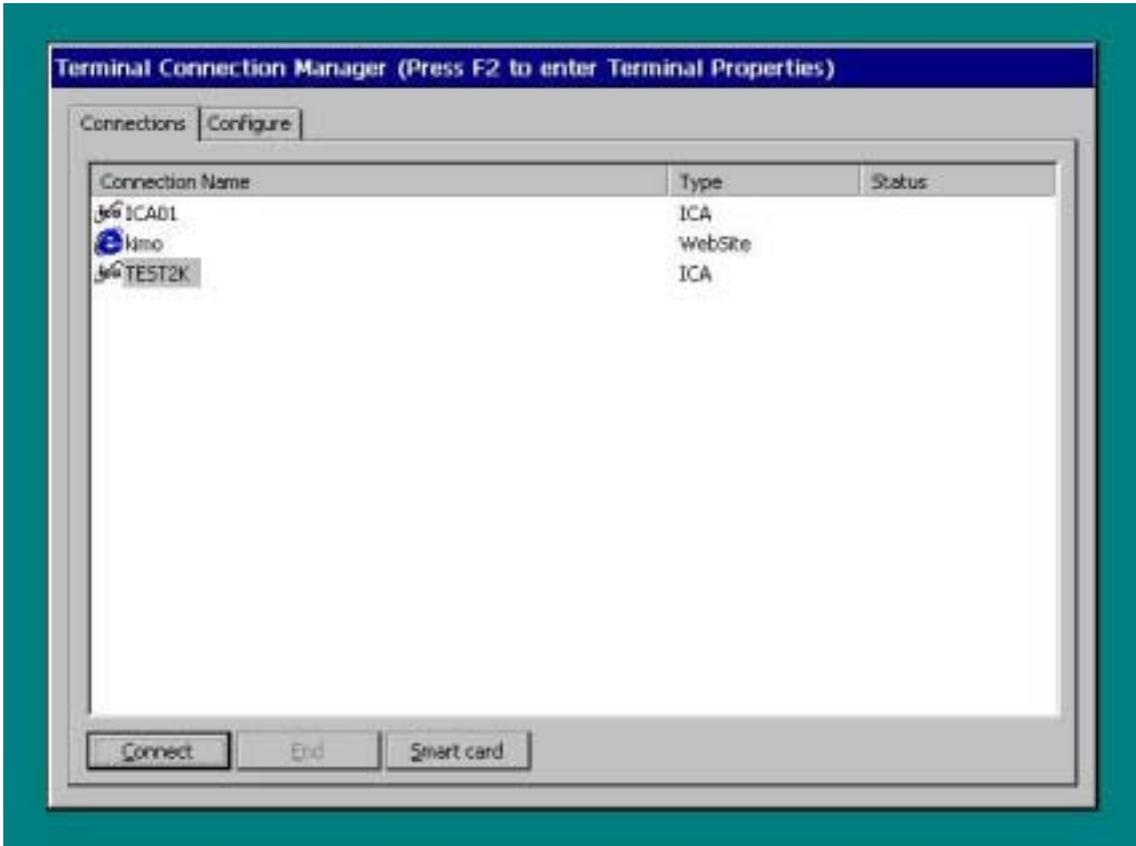
**Pin Number Authentication**

**Notice:** The smart card will be locked after three invalid entries. Contact with administrator if the smart card is locked.



**Invalid Pin No. Remind**

4: The connections of smart card will be loaded to system after passing the authentication.



**The Connections of Smart Card**

5: Users can “**Add**,”“**Edit**,”“**Delete**” or “**Connect**” while the **Connection Manager** appeared.

**Insert the smart card to Thin Client on POWER-OFF status.**

1: Insert the smart card to Thin Client then power-on the system.

2: After passing the authentication, the connections of smart card will be loaded to system.

3: User can “**Add**,”“**Edit**,”“**Delete**” & “**Connect**” while the Connection Manager appeared.

**Notice:** The smart card will be locked after three invalid entries. Contact with administrator if the smart card is locked.

## Add and/or Edit Connections and Save Connections to Smart Card

User can add new connections or edit existing connections then save connections to smart card.

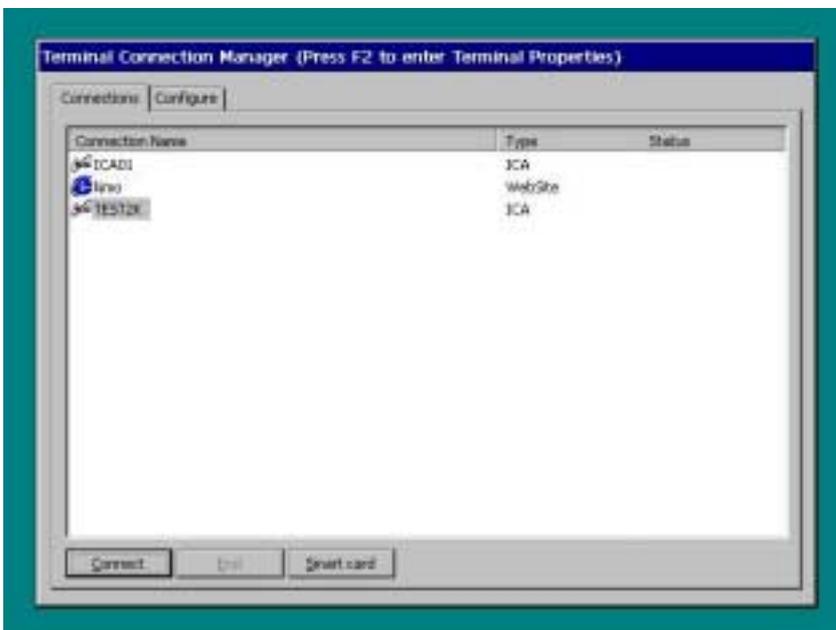
### Add/Edit Connections

Users can add the connections & edit the connections in the **Terminal Connection Manger**. Terminal Connections Manager can be invoked at anytime during normal terminal operation by pressing the “**Ctrl + Alt + End**”. Refer to the **Chapter Terminal Connections Management** for details.

### Save Connections to smart card

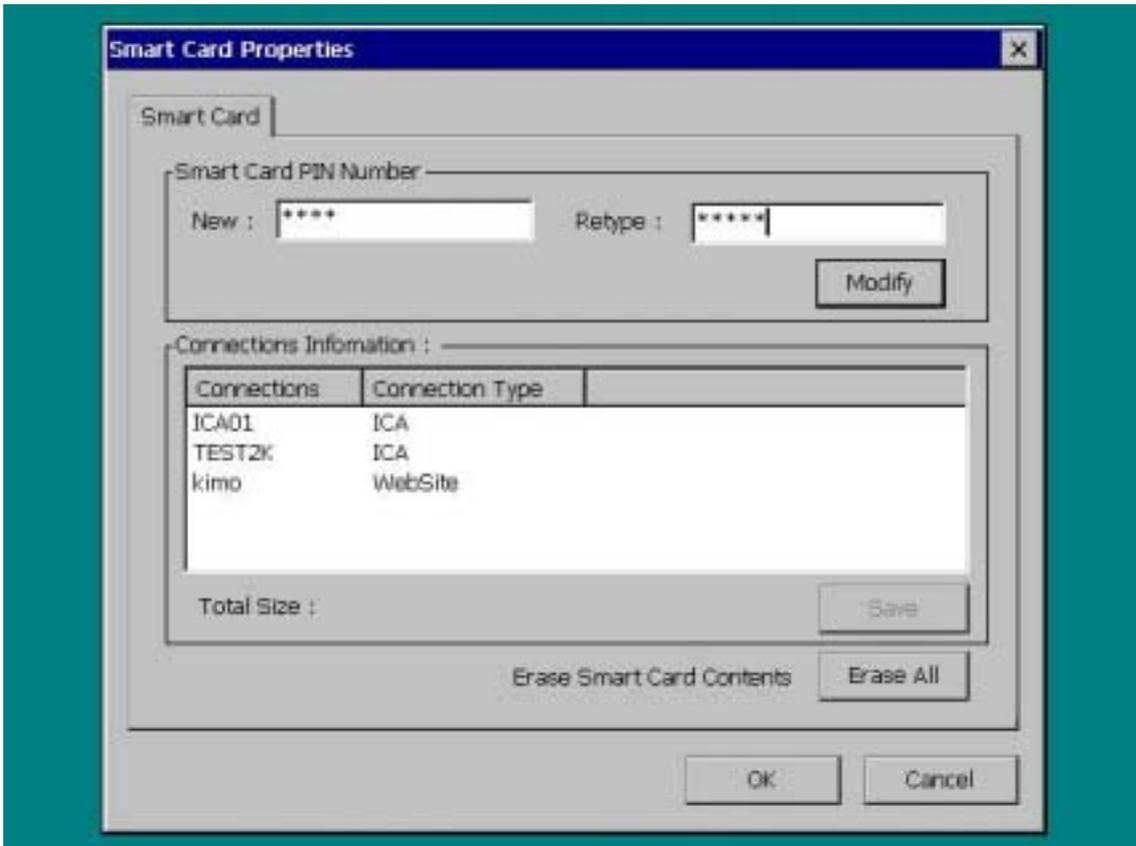
Save connections to smart card can be accomplished through following steps.

- 1: Add and /or edit connections in **Connection Manager**,
- 2: Press “**smart card**” tab in the menu to enter Smart Card Properties.

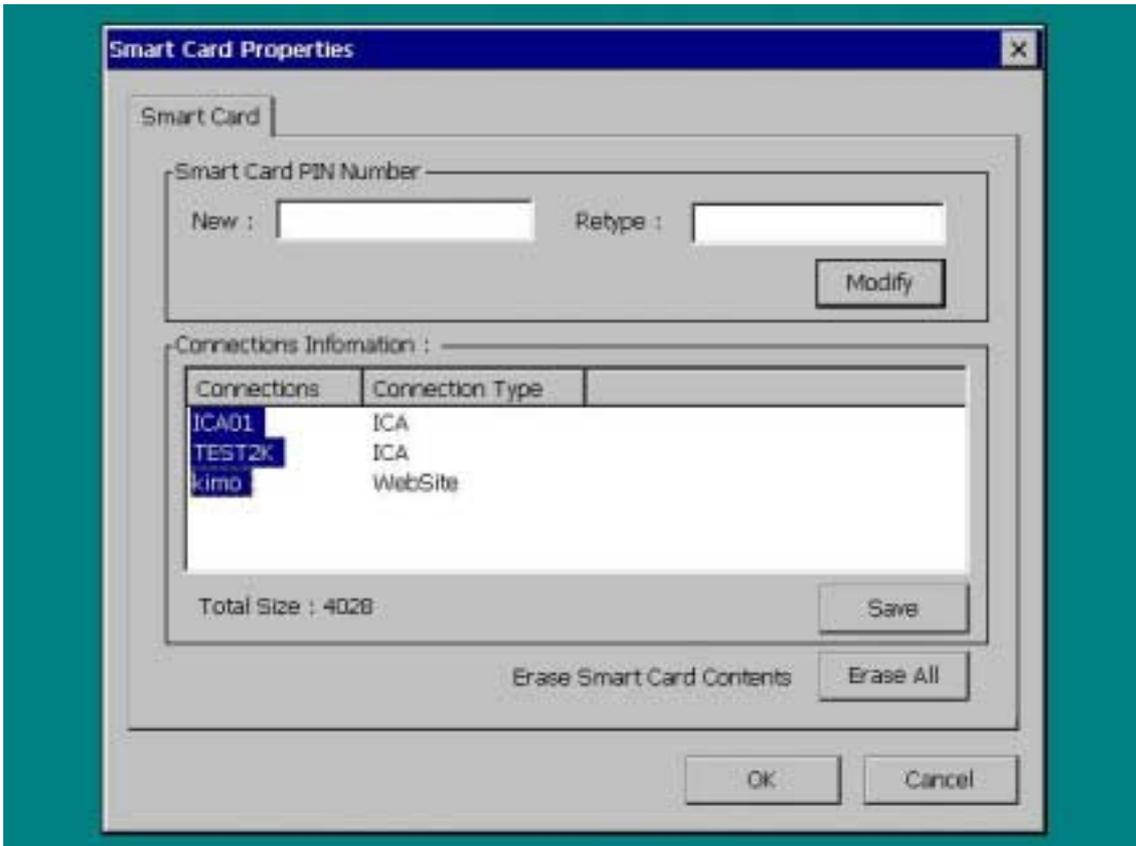


**Terminal Smart Card Properties**

There are three sections “**Smart Card Pin Number**”, “**Connections Information**” and “**Erase Smart Card Contents**” in the smart card properties dialog box. .



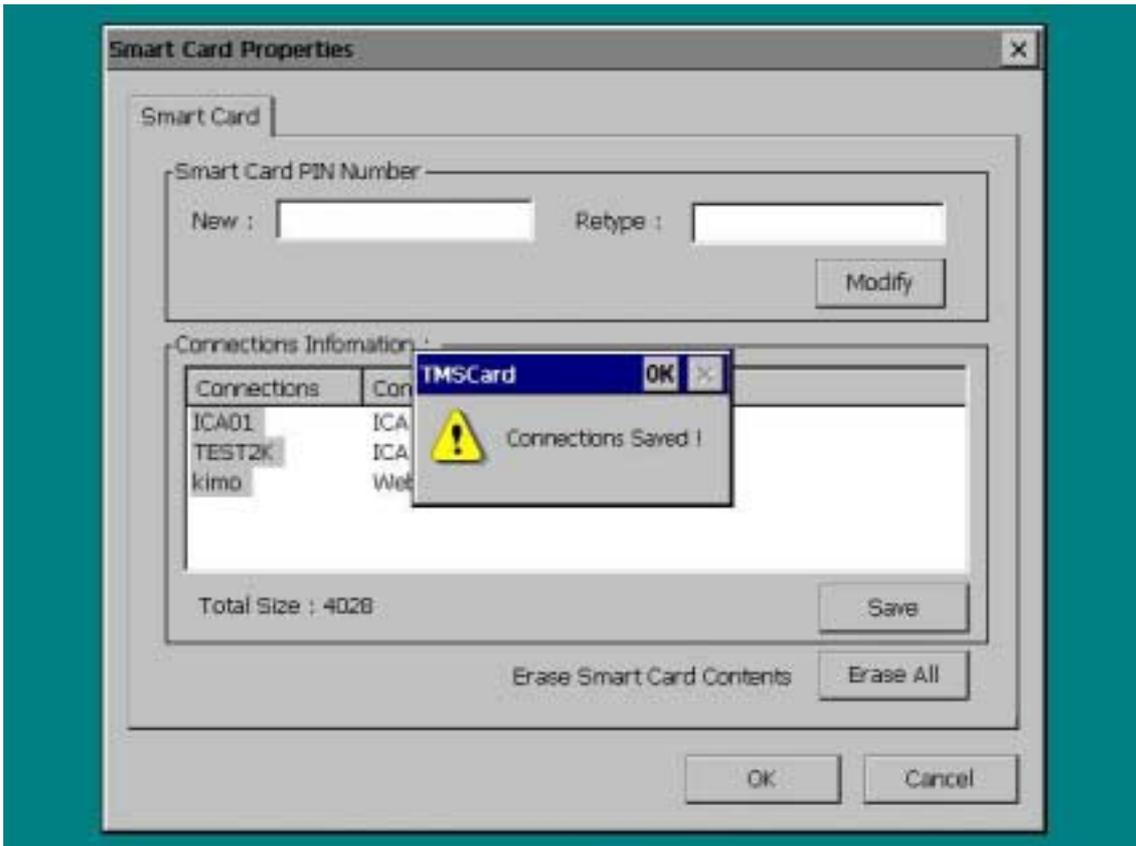
4. In the connections information section select the connections which you want to save to smart card.



### Select Connections

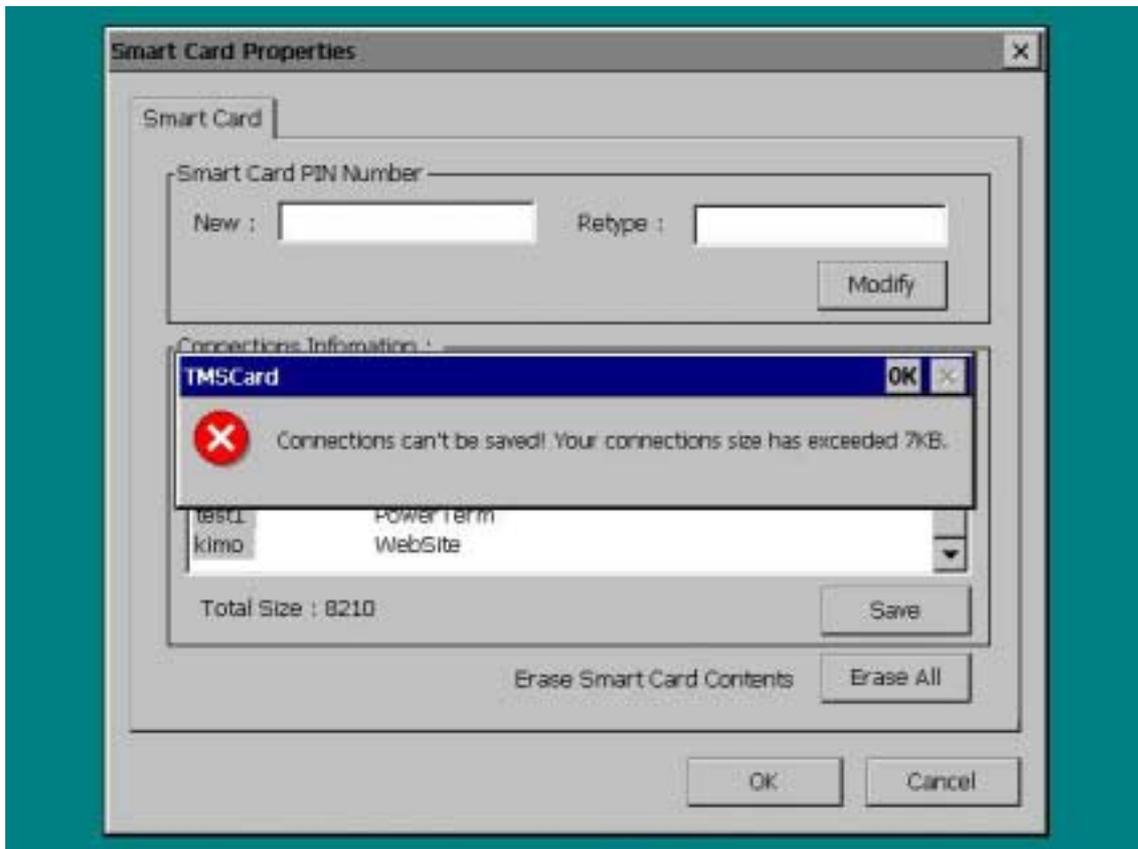
**Notice:** The “Total size” indicates the total size of the selected connections. Total size can not exceed 7KB.

Press “**Save**” button to save the selected connections to smart card.



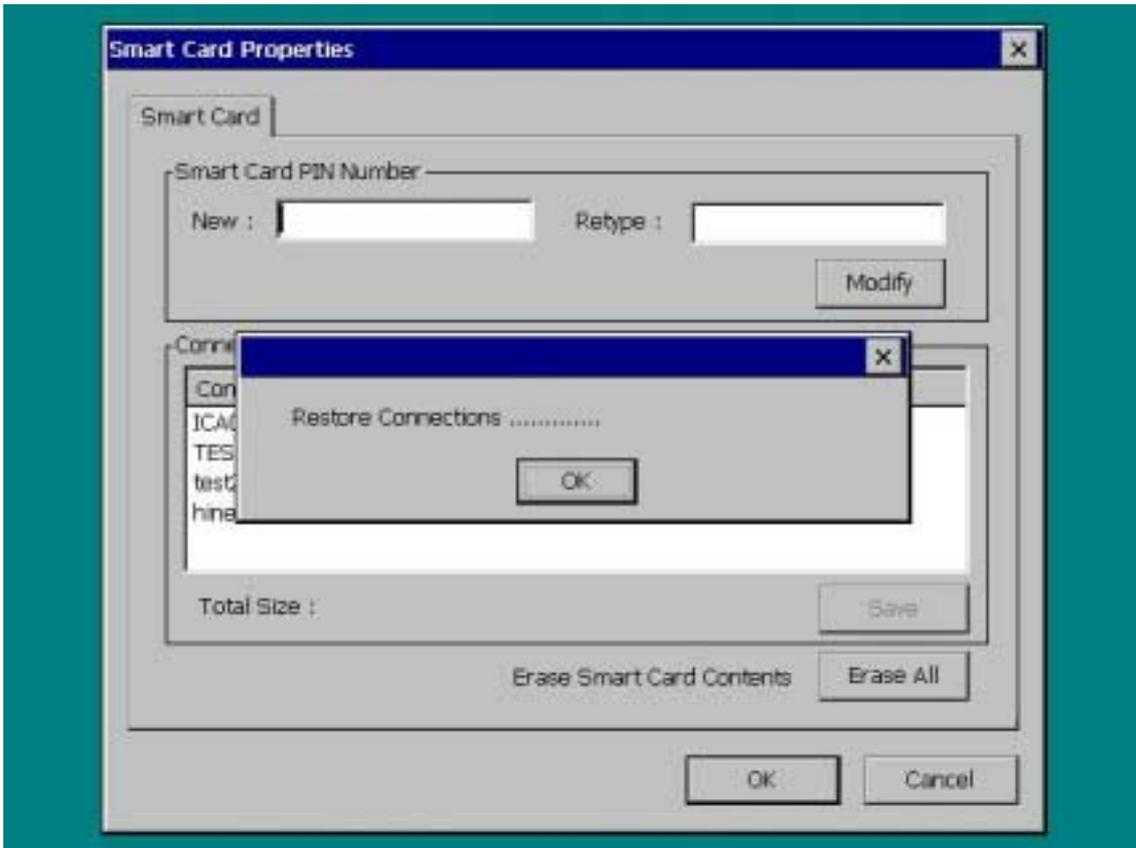
**Save Connections to Smart Card**

If The total size, for example as follow “8226”, has exceeded 7KB the warning message will show on the screen, unselect the connections and keep the total size within 7KB then save again.



**Exceed 7KB Storage Size Warning**

5. After completed the save procedure, you can pull the smart card out of Thin Client. At this moment, the system will automatic restore to the original connections.



Restore Original Connections to DOC

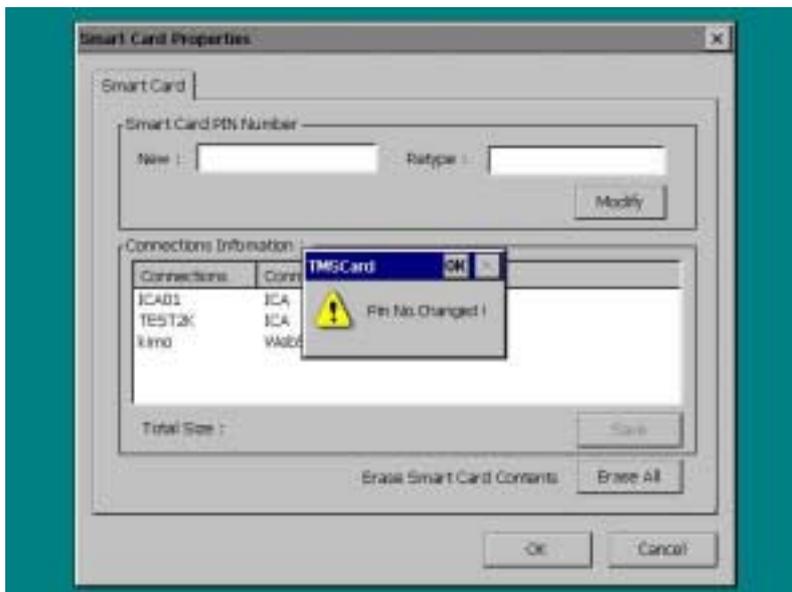
**Notice:** The storage size of Smart card is limited to 7KB. So only 5~7 connections is allowed on it, but it will also be depended on what kind of connections you wanted to create. The size of connections are listed as following:

ICA connection:	1,5KB
RDP connection:	0.8KB
Power Term Connection:	1.8KB
Internet browser :	0.4KB

## Change Smart card Pin Number

Smart Card Pin Number can be changed through following steps.

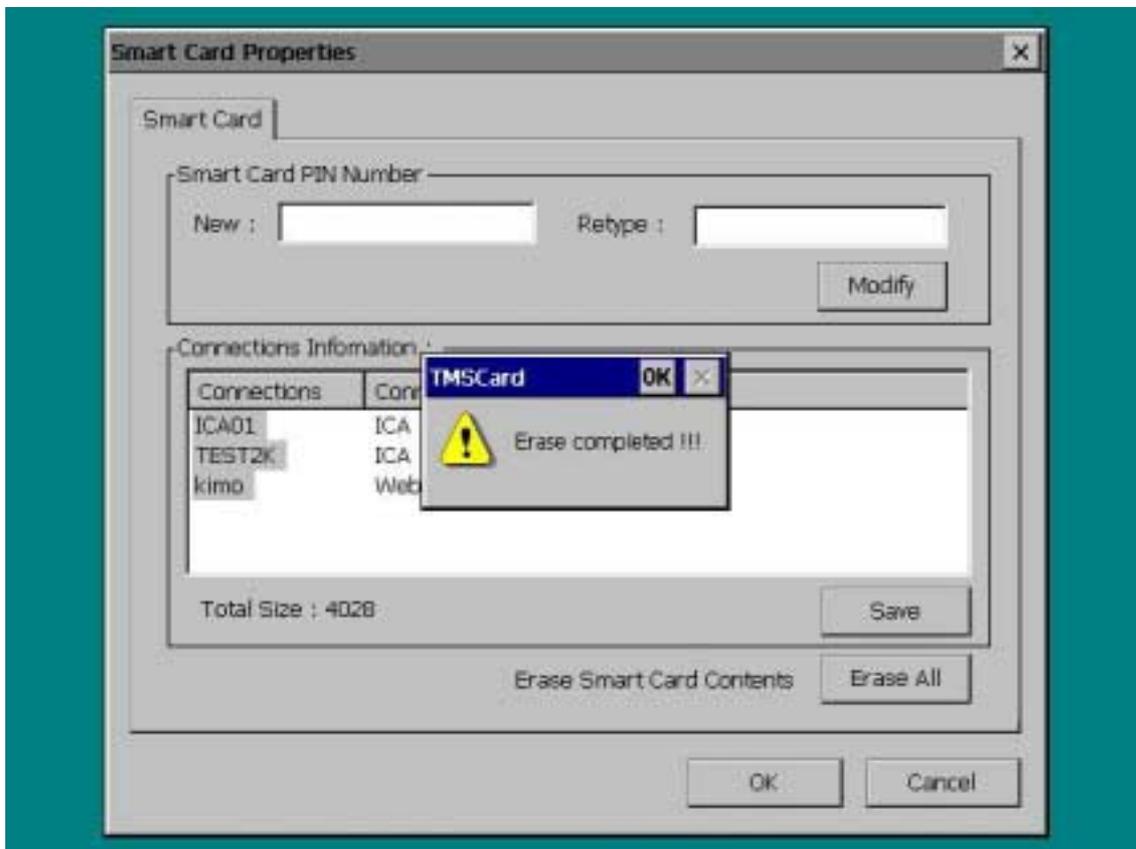
1. Into the Smart Card Pin Number section, enter the “**New Pin Number**” & Retype “**New Pin Number**”.
2. Press the “**Modify**” button
3. Wait for Modify completed messages appear.



## Change Password

## Erase Smart card contents

Smart Card Contents can be erase by press “**Erase All**” button in the erase smart card section. All the contents of smart card will be deleted.



## Erase Smart Card Contents